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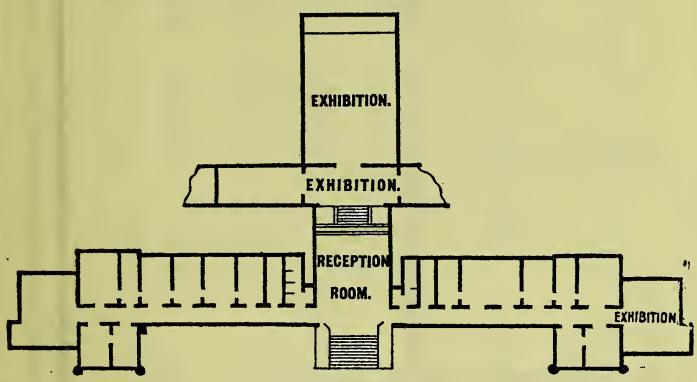

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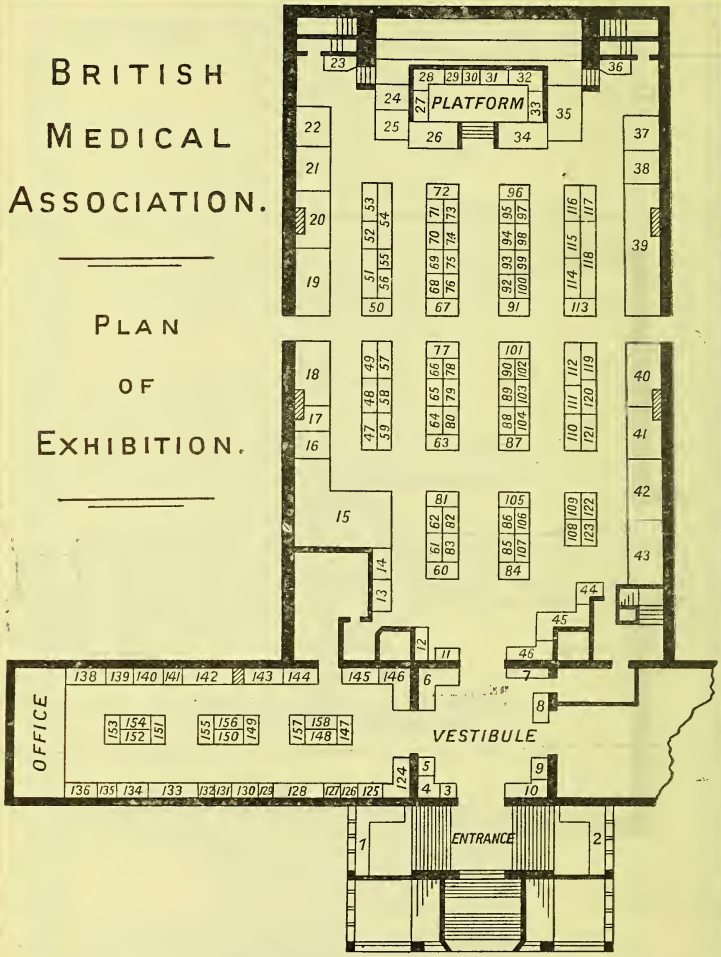

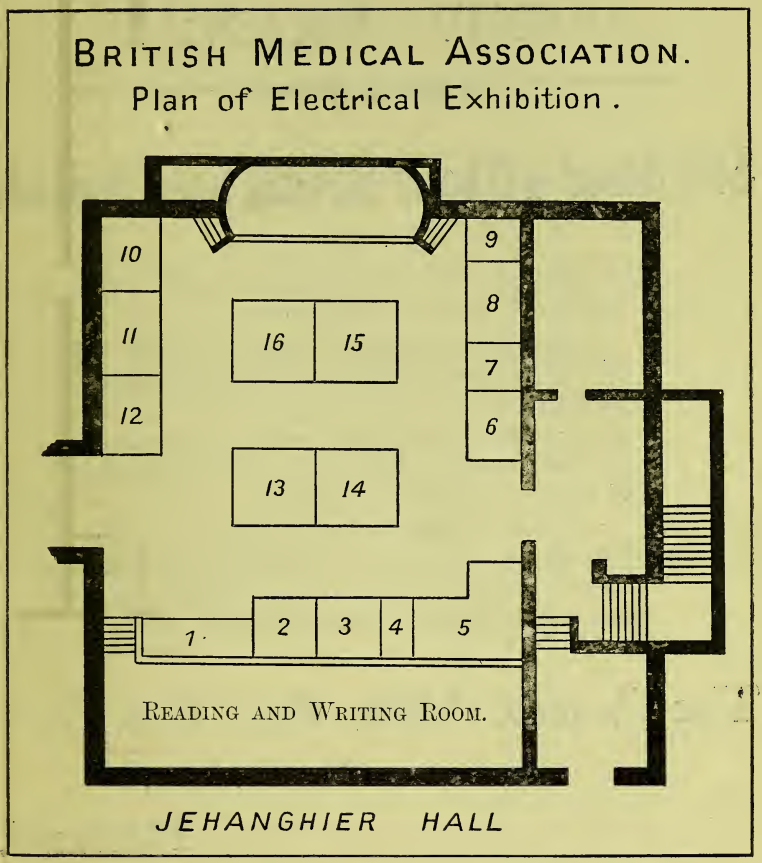
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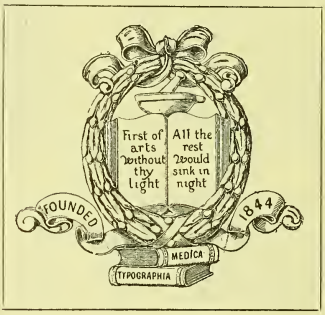

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Medicinal Products Introduced as the Result of Specialised Research.

Important Arylarsonates.—Organic arsenical preparations for use in the treatment of Trypanosomiasis, Syphilis, Malaria, etc.

'Soamin' (Trade Mark) (Sodium Para-aminophenylarsonate) contains 22·8 per cent. of arsenium (As). Soluble in five parts of water at 60° F., and in three parts at body temperature. Clinical

BURROUGHS WELLCOME & CO.—*Continued.*

reports of 30 cases of well-marked syphilis (*Journal of R.A.M.C.*, April, 1908), and of a further series of cases (*British Medical Journal*, August 15, 1908), as well as many other reports, appear to indicate that the introduction of 'Soamin' may be regarded as marking a new era in the treatment of Syphilis.

'Orsudan' (Trade Mark) (Sodium 3-Methyl-4-acetylaminophenyl-arsonate) contains 25·4 per cent. of arsenium (As). Soluble in four parts of water at 60° F. and in two and a-half parts at body temperature. The results of recent experiments indicate that 'Orsudan' may prove of value in the treatment of malaria.

'Ernutin' (Trade Mark) is a preparation of the active principles of Ergot, but without that uncertainty of action which has hitherto made the drug so notorious. Uniform potency is ensured by physiological standardisation.

'Vaporole Ernutin' is issued in hermetically-sealed containers, and is eminently suitable for hypodermic or intramuscular injection.

'Tabloid' Hypodermic 'Tyramine' (Trade Mark) presents in a state of chemical purity the organic base para-hydroxyphenyl-ethylamine, the chief active constituent of aqueous extract of ergot. When injected, 'Tyramine' brings about a rise of blood pressure, and may be used in cases of shock or collapse and for producing contraction of the uterus after labour.

'Nizin' (Trade Mark) is a valuable antiseptic, readily soluble in water, and possessing distinct advantages over the other salts of zinc. 'Nizin' is non-irritating and non-toxic in the strengths recommended for use.

'Vaporole' Brand Pituitary (Infundibular) Extract is a 20 per cent. extract of the fresh, undried substance of the posterior lobe, sterilised and ready for immediate use. When injected intra-muscularly it produces a prolonged rise of blood pressure and slows and strengthens the heart beat.

'Hemisine' (Trade Mark) is a brand name which denotes preparations of the active principle of the medulla of the suprarenal gland,

BURROUGHS WELLCOME & CO.—*Continued.*

issued by Burroughs Wellcome & Co. 'Hemisine' preparations are the result of continued experiments and research, and are standardised by observation of their effects on the blood-pressure, so as to ensure uniform activity. They are unique in stability and freedom from irritant properties.

'Vaporole' Ammonium Chloride Inhaler.

Many advantages are possessed by the 'Vaporole' Inhaler over the ordinary forms. Supplies of acid and alkali are carried separately in hermetically-sealed containers which maintain the full strength of their contents for any length of time. The 'Vaporole' Inhaler has no rubber tubes to deteriorate, no cumbersome bottles and stock solutions, and no glass stoppers to get mislaid or lost.

'Vaporole' Brand Products.

The series of 'Vaporole' Brand Products comprises a wide range of medicaments of exceptional purity, uniformity and efficiency, so presented as to ensure stability, accuracy and convenience of administration. Those intended for hypodermic injection are issued in hermetically-sealed containers of special design, whilst those for inhalation are enclosed in fragile glass capsules surrounded with absorbent material and enclosed in silken sacs.

'Vaporole' Products for Hypodermic Injection (issued in hermetically-sealed containers).—Each contains the stated weight of medicament, dissolved in water or suspended in a fluid vehicle, sterilised and ready for immediate use. Unless otherwise stated, the contents of each are sufficient to enable 1 c.c. (approx. min. 16) to be injected.

'Vaporole' Products for Inhalation (issued in thin glass capsules surrounded with absorbent material and enclosed in silken sacs).—'Vaporole' Brand Aromatic Ammonia, for use as "Smelling Salts," is worthy of note on account of its many advantages over the ordinary forms of "salts" for ammoniacal inhalation.

BURROUGHS WELLCOME & CO.—*Continued.*

'WELLCOME' BRAND SERA.

In the preparation of sera for therapeutic use great cleanliness and accuracy are absolutely necessary in order to produce a perfect article. The Wellcome Physiological Research Laboratories are equipped in a manner which complies with the most exacting demands of modern science, and it is here, under the control of scientists of great skill and reputation, that 'Wellcome' Sera are made. These products are not issued until they have passed stringent sterility and toxicity tests, consequently they may be employed with the utmost confidence and freedom from risks.

Diphtheria Antitoxic Serum, 'Wellcome,' in phials containing from 1000 to 4000 Ehrlich-Behring units.

Diphtheria Antitoxic Serum, High Potency, 'Wellcome,' in phials containing from 1000 to 5000 Ehrlich-Behring units in 1 c.c. to 5 c.c. respectively.

The following 'Wellcome' Brand Sera are issued in phials containing 25 c.c. (phials of 10 c.c. and 50 c.c. are supplied to special order only) :—

Anti-dysentery Serum, 'Wellcome.'—From horses immunised against cultures of *Bacillus dysenteriæ*, obtained from several cases of dysentery.

Anti-streptococcus Serum, Erysipelas, 'Wellcome.'—From horses immunised against cultures from typical cases of erysipelas.

Anti-streptococcus Serum, Rheumatic Fever, 'Wellcome.'—From horses immunised against cultures from severe cases of acute rheumatism and of rheumatoid arthritis.

Anti-typhoid Serum, 'Wellcome.'—From horses immunised against cultures of *Bacillus typhosus* from several cases of typhoid fever.

'WELLCOME' BRAND TUBERCULINS.

For Diagnosis :—

Old Tuberculin (Human), issued in three strengths.

Old Tuberculin (Bovine), issued in three strengths.

Tuberculins for Veterinary Diagnosis.

BURROUGHS WELLCOME & CO.—*Continued.*

For Treatment:—

New Tuberculin (W) (Human), issued in four strengths.

New Tuberculin (W) (Bovine), issued in four strengths.

For Laboratory Tests:—

Tubercle Bacilli (Human), killed, for Opsonic Estimations.

Tubercle Bacilli (Bovine), killed, for Opsonic Estimations.

Tubercle Bacilli (Human), killed and finely ground, for Agglutination Tests.

Tubercle Bacilli (Bovine), killed and finely ground, for Agglutination Tests.

'Wellcome' Brand Vaccines.

The success of vaccine therapy depends in great measure on the composition of the vaccine, its dosage, and methods of administration. The 'Wellcome' Brand Vaccines are prepared at the Wellcome Physiological Research Laboratories, and, being sterile and accurately standardised, they may be used with confidence to stimulate that elaboration of anti-bodies which is the essential feature of successful immunisation.

Acne Bacillus Vaccine, 'Wellcome.' Issued in phials of 1 c.c., containing 10 million organisms.

Coryza Vaccines, 'Wellcome.' Three coryza vaccines are issued, for use according to the nature of the infection.

Influenza Vaccine, 'Wellcome.' Issued in phials containing 10 million and 50 million organisms respectively.

The above comprises but a selection of 'Wellcome' Brand Sera, Tuberculins and Vaccines. A full list may be obtained from Burroughs Wellcome & Co.

'TABLOID' Brand FINE PRODUCTS.

'Tabloid' Brand Products, the excellence and the advantages of which are now so universally recognised, contain only the finest drugs; they are accurate in dosage and easily carried.

A very complete range of drugs is issued as 'Tabloid' products,

BURROUGHS WELLCOME & CO.—*Continued.*

'Tabloid' Brand Cascara Sagrada.

For many years Burroughs Wellcome & Co. have devoted special attention to the production of Cascara preparations of the highest quality. The utility of Cascara is greatly enhanced by eliminating the uncertainties and inequalities of activity which are associated with crude preparations.

The true Cascara, *Rhamnus purshianus*, from which the 'Tabloid' Brand Products are prepared, should alone be used.

'Tabloid' Brand Three Bromides, Effervescent.

A valuable sedative combination, in which the bromides of sodium and ammonium tend to counteract the depressant effect which has been observed to follow the individual use of the potassium salt.

'Tabloid' Brand Thyroid Gland (*Standardised*).

The majority of brilliant results recorded under thyroid treatment have been achieved with the 'Tabloid' Products.

'Tabloid' Thyroid Gland is standardised by chemical means controlled by physiological test, so as to ensure that the desiccated gland substance, of which each product represents a definite amount, contains not less than 0·2 per cent. of iodine in organic combination.

'Soloid' Brand Products.

By the use of 'Soloid' Brand Products, solutions of any desired strength are quickly and accurately prepared. The list includes a large variety of drugs.

'Tabloid' Brand Pastilles.

'Tabloid' Brand Pastilles present pure medicaments in a most pleasant and acceptable form. By their use, astringents, antiseptics, anæsthetics, expectorants, and laxatives can be conveniently and

BURROUGHS WELLCOME & CO.—*Continued.*

pleasantly administered. The basis of the pastille is demulcent; increasing the efficacy of the active ingredients.

'Kepler' Malt Products.

'Kepler' Malt Extract is prepared from the finest winter-malted barley and has a very high food value. It may be prescribed plain or in combination with various other preparations.

The following pharmaceutical products also are exhibited:—

'Enule' Brand Rectal Suppositories.
'Hazeline' Brand Hamamelis Virginiana.
'Hazeline' Cream.
"'Hazeline' Snow."
'Borofax' Brand Boric Acid Ointment.
'Phenofax' Brand Carbolic Acid Ointment.
Etc., etc.

'Tabloid' Brand Hypodermic, Ophthalmic, Medicine, and First-Aid Cases.

The special attention devoted by Burroughs Wellcome & Co. to the provision of compact outfits for general medical practice has resulted in the world-wide adoption of 'Tabloid' Equipments. The country physician, in particular, finds that, armed with stable, reliable products, conveniently and skilfully packed so that a dispensary in miniature may easily be carried, he can meet emergencies with promptitude and confidence.

'Soloid' Brand Analysis Cases.

The 'Soloid' Equipments for analytical purposes place at the disposal of physicians portable outfits of apparatus and material necessary for testing water, wine, etc., and for making bacteriological tests on the spot.

STAND No. 3.

THE HYGIENIC SYPHON CO. (1910) LTD., 50, Wigmore Street. Telephone: Padd. 5120 (3 lines).

This patent syphon has great advantages over the old metal-topped syphon. It is easily accessible, and can be taken to pieces to be sterilised. The vase can be washed inside thoroughly at each refilling. With the simple filling apparatus, Hospitals and other Institutions can manufacture their own mineral waters at a very small cost, and the authorities can assure themselves of absolute freedom from taint and metallic contamination, as this syphon contains no metal whatever. The Hygienic Syphon not only proves invaluable to Hospitals and sick rooms, where absolute cleanliness and sterility is of such paramount importance, but it meets the demand for an appliance which will always provide a medium for the supply of pure aërated water. Its very simplicity is enough to recommend it, but when combined with perfect hygienic principles there is little doubt that its advent marks a new era of sanitary science in the use of aërated water vessels. The Company are giving demonstrations at their stand of the whole operation of filling, etc.

STAND No. 4.

JOHN BELL & CROYDEN, LTD., 50, Wigmore Street, London, W. Telephones: 5120 (3 lines).

Sterilised Dressings.

A model of the sterilising rooms which have been erected at this firm's premises is shown, from which it will be seen that they have installed a powerful autoclave in two specially designed chambers. The apparatus is one of Manlove & Alliott's latest types of high-pressure machines, and has been erected so that the inlet is in one room and the outlet in another, *i.e.*, pure and impure rooms. The dressings are contained in a patent tin, hermetically sealed down. These drums are filled and placed in the steriliser from the impure side, the air is then exhausted at 20 inches pressure, steam at a

JOHN BELL & CROYDEN, LTD.—*Continued.*

temperature of at least 260° Fahr. and 20 lbs. pressure is then forced through the dressings for 20 minutes, and lastly, a vacuum of 20 inches is produced for 20 minutes, abstracting the steam and leaving the dressings perfectly dry. The pure room contains air obtained from above by means of a powerful electric fan, enclosed with fine wire gauze covered with wetted lint, the air being thus filtered. Before the drums are removed the attendant places metal discs in position on the openings in the tins, and at once solders them down with an electric soldering-iron. When the dressings are required for use the surgeon tears off the soft metal band, when the lid is easily raised, and the dressings exposed in the order they are required.

A special staff is employed to despatch, on receipt of telegram or telephone message, complete outfit for operation, including tables, bowls, jugs, trays, etc.; they are on duty day and night.

STAND No. 5.

WESTON & WESTALL, LTD., 16, Eastcheap, London, E.C.

"Droitwich Brine Crystals" shown on this stand are a scientific preparation by which the actual medicinal qualities of the Chloride of Sodium and other "salts" present in the "Droitwich Brine Springs" are secured in a portable form for home use, being certified by analysts to be identical in curative properties with the original spring, and thus enabling the Medical Practitioner to prescribe the "Droitwich Cure" or a "Droitwich Brine Bath" at home without any interference with any social or business engagement, and at the minimum of expense.

The Brine Baths at Droitwich have been recognised and recommended by Physicians, not only in this country, but practically all over the world, as the specific curative for Rheumatism, Sciatica, Lumbago, Gout, Rheumatoid Arthritis, and all Muscular affections, Chlorosis, and various diseases of

WESTON & WESTALL, LTD.—*Continued.*

the Nervous System, and in convalescence from acute diseases or debility from any cause.

A Brine Bath prepared from these "Crystals" has a specific bracing effect on the skin; opening the pores and softening and thinning the epidermis and drawing the blood to the surface, it enables it to throw off the various acid secretions, and to imbibe the other constituents they contain, which act beneficially on the system generally, counteracting the presence of Uric Acid and kindred bodies in the blood.

These Springs contain more curative properties of their special characteristics than any other Spring, Continental or otherwise, and in respect of the percentage of solid constituents (a matter of the most supreme importance in the consideration of any Mineral Water or Bath) the Droitwich Brine stands at the head of its class.

Analysis of these "Crystals" gives the following high medicinal value:—

Chloride of Sodium	96·84
Sulphate of Sodium	1·42
Sulphate of Calcium	1·21
Chloride of Magnesium	0·46
Sulphate of Aluminium	0·07
Iodides	Trace
	100·00

The "Crystals," which are packed only in white linen bags containing 14 lb. or 28 lb. each, are obtainable from any chemist, or are delivered free to any address at the following charges for a 28-lb. bag:—London or Suburbs, 2s.; Country Station, 2s. 3d. Special terms to the Medical Profession by our special Agents, John Bell & Croyden, 50, Wigmore Street, W., or the Sole Proprietors, Weston & Westall, Ltd., 16, Eastcheap, London, E.C. Telephone No.: 2059 Avenue. Telegraphic Address: "Pure Salt."

STAND No. 6.

FINDLATER, MACKIE, TODD, & CO., LTD., London Bridge, S.E. Sole Agents for St. Raphael Natural Tonic Wine. Importers of all Foreign Natural Mineral Waters.

St. Raphael Natural Tonic Wine.—This well-known tonic is a pure natural wine of the Burgundy type, grown in the south of France, but containing more tannin than any other known wine and consequently of great medicinal value. It is prescribed in all forms of anæmia, and, according to Mr. Bouchardat, ex-professor of Hygiene at the Paris Faculty of Medicine, proves particularly efficacious in cases of great physical weakness due to illness, and in toning up the system generally. The great advantage which this wine possesses is that it is absolutely natural, whereas the majority of the tonic wines at present on the market are artificial combinations of extr. carnis and poor-class wine, &c. St. Raphael has been prescribed in all the Paris Hospitals for many years.

Sole Agents for the following Foreign Natural Mineral Waters:—

Birresborn.—A beautiful, natural, sparkling water, fresh-tasting and absolutely pure. An unrivalled natural table water.

Carabana.—This aperient water, owing to its remarkable proportion of sulphates (there being a larger proportion of sulphate of soda as compared with sulphate of magnesia than any other natural aperient in the world), may safely be prescribed even for the most delicate constitutions. It is not a "bitter" water, and is totally free from all irritating and nauseous effects. It is not a depressant, causes no griping pains, is gentle and rapid in action, and, unlike most aperients, has no constipating after-effects.

Ems.—This water is owned and sold by the Royal Prussian Government, it having been acquired owing to its enormous importance as a curative agent in catarrhal affections of the mucous membranes, especially of the throat and the respiratory and digestive organs; German medical experts consider it invaluable for catarrhal influenza and coughs. It belongs to the class of alkaline muriated acidulous waters.

ST. RAPHAEL

Tannin Wine.

Far more efficacious in cases of Anæmia, Chlorosis and debilitating diseases than medicated wines. Strongly recommended and prescribed by the most noted French Physicians and the Academy of Medicine, Paris.

It is the pure juice of the grape, containing no meat extract or drugs, and owes its wonderful restorative powers entirely to the method in which the vines are cultivated.

Sole Agents in United Kingdom:

FINDLATER, MACKIE, TODD & CO., LTD.,
LONDON BRIDGE, LONDON, S.E.

OWNED AND CONTROLLED BY THE ROYAL PRUSSIAN GOVERNMENT.

EMS WATER for

Catarrhal Influenza

And all Catarrhal Diseases of the Mucous Membrane.

Sole Agents in United Kingdom

FINDLATER, MACKIE, TODD & CO., LTD.,
LONDON BRIDGE, LONDON, S.E.

FINDLATER, MACKIE, TODD, & CO., LTD.—*Continued.*

Martigny (Vosges).—Lately discovered near Contrexeville, and is considered to far surpass that famous spring in therapeutical value, as, while containing all Contrexeville's good qualities, it contains seven times more lithia; specially indicated for arthritis of all kinds, gout, gravel, etc.

Pougues.—The principal French mineral water for use in facilitating digestion and assuring proper nutrition.

Schlangenbad and Schwalbach.—These waters are also owned and sold by the Royal Prussian Government, the springs being situated in Hesse-Nassau. The former is much prescribed in cases of nervous and cutaneous irritability, the latter for debility, anæmia, and chlorosis. Both spas are very largely frequented in the summer season for the sake of drinking the waters.

Taunus.—A remarkable, fresh-tasting and sparkling mineral table-water, much used by Her Majesty the late Queen Victoria.

It is of special interest to note that all the above waters are absolutely natural mineral waters.

IMPORTERS OF ALL FOREIGN MINERAL WATERS.

STAND No. 7.

THE SACCHARIN CORPORATION, LTD., 10, Arthur Street West, London, E.C.

Novocain.—The New Non-Irritant Local Anæsthetic.

Novocain has been searchingly examined and most favourably reported upon by acknowledged authorities.

Novocain is at least seven times less toxic than Cocaine, and two to three times less toxic than substitutes hitherto presented—in doses producing an equal degree of anæsthesia.

Novocain, in normal doses, does not affect the circulation or the respiration; the cardiac activity is unaffected.

Novocain produces no dilatation whatever of the pupils or of the peripheral vessels.

THE SACCHARIN CORPORATION, LTD.—*Continued.*

Novocain is readily soluble in cold water. Its solutions possess a neutral reaction, are easily absorbed, and can be sterilised by boiling without undergoing decomposition. The continual extension of the field of employment of local anæsthetics in surgery has induced a keener appreciation of the many drawbacks associated with the use of Cocaine. In some branches of surgery Cocaine is totally unserviceable, and although some of the substitutes have exhibited advantages in one or the other direction, none of them has fulfilled the principal condition required for general utility. A local anæsthetic should be absolutely devoid of irritant action. All the substitutes for Cocaine hitherto introduced have possessed a decidedly irritant action on the living tissues, amounting even to corrosive effect when concentrated solutions were employed.

Professor H. Braun, the author of the latest standard work on Local Anæsthesia, has specified the following conditions with which a local anæsthetic should comply:—

1. A lower degree of toxicity than Cocaine in proportion to its local anæsthetic power.
2. Absence of the slightest degree of irritation. Not the least injury must be caused to the tissues, but the local anæsthetic must be easily absorbed without any after-effects, hyperæmia, inflammation, infiltrations or necroses. The healing of wounds must not be prejudiced.
3. Complete solubility in water, and the solutions stable. It is also very desirable that the solutions keep without deterioration, and can be readily sterilised.
4. Compatibility with suprarenin, the active adrenal substance, the vascular contractile power of which must be fully preserved.
5. Rapid penetration of the mucous membranes, and suitability for medullary anæsthesia.

The attention of many expert chemists and pharmacologists has therefore been for many years directed to the production of a relatively non-toxic and absolutely non-irritant local anæsthetic. As a result, Novocain has been discovered.

THE SACCHARIN CORPORATION, LTD.—*Continued.*

Chemical and Physical Properties.

Novocain is a derivative of the new class of amino-alcohols.

Novocain is the hydrochloride of p-aminobenzoyl-diethylaminoethanol, represented by the formula :—

$$C_6H_4.NH_2.COO.C_2H_4.N(C_2H_5)_2.HCl.$$

Novocain is a white crystalline powder. It can be heated without decomposition to a temperature of 120 deg. C.

Novocain.—The ideal Local Anæsthetic and Cocaine Substitute for dentists.

For dental work one and two per cent. solutions of Novocain are usually employed.

Sodii Chlorid. Puriss., 10 tablets in tube, 2½ grains. One tablet dissolved in half pint of sterilised water will give 1 per cent. Physiological Saline Solution, 0·8.

Novocain and Strychnine for Producing Spinal Analgesia.

a. Operations on the Head, Neck, Arms, and Thorax.

Site for Injection: Between the 1st and 2nd dorsal spines in the middle line.

b. Operations on the Liver, Gall Bladder, Stomach, Spleen, Pancreas, etc.

Site for Injection: Between the 11th and 12th dorsal spines in the middle line.

c. Operations on the Kidneys, Intestines, Hernia, Pelvis, and Lower Limbs.

Site of Injection: Between the 12th and 1st lumbar spines in the middle line.

Pergenol.

Pergenol is a solid compound of Hydrogen Peroxide, which dissolves immediately in water to make a neutral solution of hydrogen peroxide and boric acid.

Pergenol is a white soluble powder containing 12 per cent. hydrogen peroxide and 22 per cent. boric acid, which are immediately liberated by the action of the water.

THE SACCHARIN CORPORATION, LTD.—*Continued.*

Hydrogen peroxide is already extensively employed in dentistry and in surgery as an antiseptic, but hitherto has only been obtainable in the form of dilute aqueous solutions, which easily lose their activity.

Pergenol will keep for any length of time in a dry place, possesses all the advantages of a solid for storage and transport, and from it fresh solutions of hydrogen peroxide of the desired strength can be made at a moment's notice.

The presence of boric acid (or sodium boro-tartrate) in the solution of Pergenol adds to the antiseptic efficiency of the hydrogen peroxide, and is a distinct advantage in dental practice and the hygiene of the mouth.

Pergenol is supplied in powder form or in tablets of 0·5 gramme (7½ grains). Six tablets or a teaspoonful (not heaped up) of the powder dissolved in a fluid ounce of water furnishes a 10-per-cent. solution, equivalent to a 1·2-per-cent. solution of hydrogen peroxide, and a solution about double the strength of boric acid.

Pergenol for dental surgery, for cleaning and disinfecting the field of operation, irrigating the pulp cannels, before stopping, alveolar pyorhœa, gingivitis.

Pergenol for sterilising instruments, syringes and needles. Its neutral character and composition indicate Pergenol specially for the disinfection of syringe before injections of Novocain.

Pergenol has proved also extremely useful in inflammation of the middle ear; the use of Pergenol combines both accepted treatments, with hydrogen peroxide and boric acid. Fæto exormia is quickly removed by a 2- or 3-per-cent. solution.

Pergenol for gargling, or throat affection, in pastilles.

Pergenol in general surgery, gynæcology and urology.

Pamphlets, Surgical and Dental, on application to the Sole Proprietors, Novocain Department, 10, Arthur Street West, London, E.C.

N.B.—Change of Address.

STAND No. 8.

THE CELLULAR CLOTHING CO., LTD., 72 and 73, Fore Street, London, E.C. Telephone No.: London Wall 838. Tel. Address: Cellular, London.

Retail Agents, London:—City: Robert Scott, Ltd., 8, Poultry, Cheapside, E.C. (near the Bank). Telephone No.: London Wall 1541. West End: Oliver Brothers, Ltd., 417, Oxford Street, W. (Opposite Selfridge's.) Telephone No.: Gerrard 2627.

The Best Non-Conductor of Heat is Air.

Aertex Cellular Clothing for Health and Comfort.

The most careful and exhaustive experiments have proved that Air at rest is the non-conductor of heat which renders clothing healthy, and no clothing is healthy which does not retain a large proportion of Air within its meshes. Underclothing is equally healthy of whatever fibre it may be made, provided that Air, warmed by the heat of and surrounding the body, is retained for a sufficient time within its interstices. It is well known that a piece of new flannel is much warmer than a piece of the same flannel when flattened or shrunk and felted with washing. In other words, when the Air is expelled the non-conducting property of the flannel is lost.

The special qualities of Aertex Cellular may be effectively described as follows:—1. It is practically a supplementary skin, retaining warmth, and permitting free evaporation. 2. It is warm in winter and cool in summer, owing to the presence of non-conducting Air in its meshes. 3. It is easily washed and does not shrink. 4. It is light and comfortable to wear, and does not irritate the most sensitive skin. 5. It is very durable.

The Use of Red Garments in the Tropics.

It has been definitely proved by the medical profession that the sun's rays in the Tropics act very forcibly, but that it is the blue rays (known scientifically as the actinic) which produce sunstroke, and that the red rays (known as the non-actinic rays) do not have any harmful effect. Heat alone is not injurious, as is

IT MAKES NO DIFFERENCE of what material your Shirts & Underwear are made. but it **MAKES ALL THE DIFFERENCE** how that material is woven.

Cotton, if woven into a porous texture. is quite as protective as wool. washes better. wears longer, and is much cheaper.

AERTEX

Cellular

is the oldest and best of porous fabrics.

An Ideal Suit of Summer Underwear for 5s.

Day Shirt from 3s. 6d.

AERTEX Cellular Garments are composed of small cells, in which the air is enclosed. The body is thus protected from the effects of outer heat or cold, while the action of the pores of the skin is not impeded.

ILLUSTRATED PRICE LIST of full range of *AERTEX CELLULAR* goods for Men, Women, and Children, with list of 1,500 Depots where these goods may be obtained, sent post free on application to THE CELLULAR CLOTHING Co., Ltd., Fore Street, London, E.C.

ROBERT SCOTT, Ltd., 8, Poultry, Cheapside, E.C.
OLIVER BROS., Ltd., 417, Oxford Street, W.

THE CELLULAR CLOTHING CO., LTD.—*Continued.*

evidenced by the fact that persons can stand high temperatures in Turkish baths, and stokers stay for days in boiler-rooms without injurious effect, but heat together with strong sunshine often results in disaster.

We have therefore produced a specially-dyed red Aertex fabric, which is not a bluish-red, but is so carefully selected as to colour that only the red and orange rays are allowed to act on the body.

The following extract is from *Chambers's Journal* for May, 1908:—

"Colonel Maude, late R.E, in the course of a lecture delivered before the Royal United Service Institution, in London, referring to the question of health in tropical climates, pointed out the relation between actinic rays and their effect upon the great nerve centres running down the spinal column. If these rays are excessive, the disturbance of the nerve centres reacts upon the stomach, upsetting the digestion as well as provoking

THE CELLULAR CLOTHING CO., LTD.—*Continued.*

the dangerous malady of sunstroke. Consequently it is obvious that if a non-actinic material were used next to the skin, the effect of the actinic rays would be nullified. Colonel Maude personally tried the experiment some 25 years ago, and the relief thus secured was remarkable, since he was able to prosecute his duties in the hottest sun without inconvenience or experiencing any ill-effects."

The great comfort derived from the wearing of Aertex garments in hot countries will, we believe, be still further increased by the substitution of Aertex garments made from red yarns which have been chemically tested and proved to be able to withstand the actinic rays.

We are therefore confident these garments will meet a great need, as they are admirably adapted for tropical use.

STAND No. 9.

HOT SPRINGS OF BATH.

The Mineral Waters of Bath, used by the Romans as early as the first century, flow from three principal springs, yielding daily over half a million gallons, at a temperature of 117° to 120° Fahr.

The following Analysis of the Waters was made at the *Lancet* Laboratory:—

	Grains per gallon.	Milligrammes per litre.
Calcium sulphate	102·880	146·97
Strontium sulphate	2·030	2·90
Sodium sulphate	23·500	33·57
Potassium sulphate	0·207	0·30
Calcium carbonate	8·750	12·50
Magnesium chloride	15·800	22·57
Sodium chloride	9·080	12·97
Lithium chloride	0·120	0·17
Silica	1·960	2·80
Bromine	Traces	Traces
Nitrates	None	None
Carbonate of iron	1·600	2·29
Total Mineral Matters	165·927	237·04

HOT SPRINGS OF BATH—*Continued.*

The presence of Radium in considerable quantity in the Bath waters may explain their curative properties. The extremely rare gases, Krypton and Xenon, have recently been discovered by Sir James Dewar.

The accommodation at the Bathing Establishment provides for every form of balneotherapy, and includes Deep Baths, containing from 600 to 800 gallons, and fitted with various douches, Reclining Baths and Swimming Baths. Aix and Vichy Douche Massage is largely employed, and Thermal Vapour Baths, Berthollet Local Vapour treatment, and Needle and other douches are available. The Inhalation Room is fitted with sprays for the treatment of the throat, eyes, and face with pulverised mineral water, and small douches for the nose and ears are included.

Nauheim Baths are largely employed, and Hydro-Electric Baths and Electric Hot Air treatment are administered.

Plombières douches for muco-membranous colitis and similar diseases have been installed on the latest principles, and the Bourbon-Lancy treatment for arterio-sclerosis is administered.

The use of the waters in one or other of the many modes of their application has been found of eminent service in cases of Rheumatism (chronic or muscular) and Gonorrhœal Rheumatism. It has also yielded satisfactory results in Gout in all its forms, and Diseases of the Skin (especially those of gouty origin), Rheumatoid Arthritis, Sciatica, and Diseases of the Nervous System, including Neurasthenia and Neuritis, restoring movements and muscular tone after accidents. Various Diseases of Women greatly benefit.

In the treatment of tropical diseases Bath is very successful. The Nauheim Baths are useful in many cases of heart disease, and arterio-sclerosis and muco-membranous colitis and allied conditions are now treated.

The Grand Pump Room is an elegant and finely-proportioned apartment in the Renaissance style, where water drinkers are

HOT SPRINGS OF BATH—*Continued.*

served from a many-sprayed fountain, supplied direct from the King's Spring.

During the Summer Season the Mineral Waters are also served at the Colonnade Fountain in the Gardens, where the band plays daily.

The Bath Mineral Water, aërated and bottled under the name of "Sulis Water," is largely prescribed. As a table water it is palatable and refreshing, and provides an effective means of continuing at home the benefits obtained at Bath. A depôt adjoining the Pump Room has been opened for the despatch of "Sulis" water, and medical men are invited to inspect the process of bottling.

The Roman Remains adjoining the modern Baths are probably the finest thermæ in Western Europe, and some interesting Roman antiquities are shown at this exhibit.

Bath is full of houses of literary and historic interest, and the genius of the great architects of the eighteenth century is everywhere in evidence.

The City is well provided with Parks and Gardens. The hotel, boarding-house, and lodging-house accommodation is all that can be desired, and comfortable apartments of all classes can be obtained.

The Corporation provide first-class concerts at the Roman Promenade, under the baton of Mr. Max Heymann, where, in addition to the magnificent Concert Room, Drawing and Smoking Rooms, where the daily papers may be consulted, are available for visitors.

The Terraces surrounding the Great Roman Bath provide an interesting promenade.

The famous Assembly Rooms, the Theatre, Art Galleries, and Museums are of interest.

The outdoor amusements include hunting, tennis, croquet, county cricket, archery, and boating. Excellent golf is available.

HOT SPRINGS OF BATH—*Continued.*

The scenery around Bath is very beautiful, and delightful excursions can be made by coach, motor-car, motor-bus, or train.

An Inquiry Office has been opened at the Grand Pump Room for the convenience of visitors.

Complimentary tickets for the Baths and Concerts are issued to medical men in practice.

Medical Handbooks to Bath and the Hot Springs and all information from Mr. John Hatton, the Director of the Baths.

STAND No. 10.

CEREBOS LTD., Head Office and Works, Greatham, Co. Durham. London: 3, Maiden Lane, E.C.

Cerebos Salt is a table salt prepared from saturated brine drawn from the Company's wells, which are about 1,000 feet deep, situated close to their works at Greatham, in the County of Durham. The brine is first purified, and the salt is then crystallised from it by evaporation. During the subsequent manufacture, there is incorporated with it 4 per cent. of specially prepared and purified phosphates, which replace the phosphates lost to the system through the milling of wheat and other processes of food preparation. The phosphates are in a form readily soluble in the stomach, and are consequently easily assimilated by the system. Cerebos Salt, therefore, consists of 96 per cent. of the purest natural salt and 4 per cent. of phosphates.

The Cerebos Company has a fully equipped laboratory, in charge of a B.Sc., of London, and daily tests are made of the manufacture. The works are situated in the country close to the seaside, and great attention is paid to the conditions as to hygiene and cleanliness attending the manufacture. During the entire process the salt is never touched by hand, from the pumping-up of the brine to the point where the salt is automatically weighed into the paper-lined tins now so well known.

In addition to the Company's own chemists, advantage is taken of various public bodies, such as the Institute of Hygiene and

CEREBOS LTD.—*Continued.*

the British Analytical Control, which from time to time buy on the market and test the product, giving the Company and the public the benefit of their independent advice and testimony.

In consequence of these and other reports, specially made by competent authorities, Cerebos Salt has been adopted by persons in high places, and its use has spread throughout the world. The latest instance of this is the South Polar Expedition, for which Captain Scott, who had used it in his previous trip, ordered a consignment weighing three-quarters of a ton.

Acting on the policy of scrupulous care and cleanliness, and in order to carry that policy up to the very point when the salt is used, the Cerebos Company has introduced a salt pourer, or sprinkler, to be used instead of the open salt cellar. This prevents the salt from being contaminated by dust or other impurities. A sample of the pourer will be sent free to any medical man who has not already obtained one.

STAND No. 11.

REYNOLDS & BRANSON, LTD., Wholesale Chemists and Surgical Instrument Makers, 13, Briggate, Leeds.

Anæsthetics.—Special attention is directed to maintain an exceptional standard of purity and reliability.

Chloroform Puriss., 1·495, R. & B.
Ether Anæsthetic, 0·720, R. & B.
Triple Anæsthetic (Mayo's), 0·973.
A.C.E. Mixture, 1·000, R. & B.

Asthma Fumigating Powder, R. & B., containing Datura Tatula, Stramonium, Lobelia, and Cannabis Indica, etc.

Cascara Fluida, R. & B.—A potent, palatable and reliable preparation.

Cresylic Inhalant, R. & B.—Coal Tar product, especially valuable for the relief of Whooping Cough, Bronchitis, and other chest affections.

REYNOLDS & BRANSON, Ltd.

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CATALOGUES.

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Handy Guide to Photographic Requisites.

LEEDS.

REYNOLDS & BRANSON, LTD.—*Continued.*

Elixir Aletridis, Hydrastis et Pulsatillæ, R. & B.—Uterine tonic and sedative.

Elixir Calcii Iodid., R. & B.—Very useful in the treatment of foul ulcers, chilblains, etc.

Elixir Calcii Lactat.—Given in cases of rickets and tuberculous disease.

Elixir Glycerophosph. et Format., R. & B.—Extensively prescribed in cases of neurasthenia.

Elixir Heroin et Terpin Hydrat., R. & B.—Combines the expectorant action of Terpine Hydrate with the sedative properties of Heroin.

Ergothe, R. & B.—A reliable and stable preparation of sound Ergot of Rye, it is scientifically prepared *in vacuo* and tested Physiologically.

Fluid Extracts Standardised, R. and B.

Gargarisma Boracis Co., R. & B.

Gargarisma Boroformal Co., R. & B.—A concentrated antiseptic gargle.

Lac Magnesiæ, R. & B.—Antacid—An excellent mild laxative for children and infants.

Liq. Bismuth Co. c̄ Pepsino et Rhamno, R. & B.—An elegant non-constipating preparation of Bismuth and Pepsine.

Lithules, R. & B.—A palatable effervescent Lithia Tablet, each tablet containing 5 grains Lithium Citrate.

Lypthymine Ointment, R. & B.

Lypthymine Dusting Powder, R. & B.—Antiseptic, mildly styptic.

Opianthe, R. & B.—Standardised preparation of opium, containing 0·75 per cent. of Morphine, free from nauseous odour, narcotine resin, etc.

Silcasine, R. & B.—For use in place of poultices in cases of congestion, inflammation, etc.

Suppositoria Bismuth. Sulgallat. Co., R. & B.—Very efficacious in the treatment of hæmorrhoids, etc.

REYNOLDS & BRANSON, LTD.—*Continued.*

Syr. Bromoform Co., R. & B.—Recommended with great success in Whooping Cough.

Ung. Sedativum, R. & B.—An excellent ointment for the treatment of pruritus, eczema, and most skin affections.

Physiologically Tested Preparations of Digitalis, Ergot, Indian Hemp, Squill, and Strophanthus.

Tinctures Concentrated, R. & B.—(Double strength of B.P.). Both pharmaceutically and therapeutically they will be found equal to those of the B.P. and at the same time more economical.

Flavouring and Colouring Agents.

Tablet Triturates.

Aerated Waters.—Sparkling Phosferrade, Sparkling Puritzer, Ginger Ale prepared without Sugar.

Aseptets.—Hyd. Perchlor., Hyd. Biniod., Aseptol, etc.

Pigment Iodi, 10 per cent., and Iodo-Krolein, 5 per cent.

Fluid Magnesia.—A carefully prepared solution of pure Magnesium Carbonate.

Apparatus for the application of CO_2 to vascular nævi, etc.

New Centrifuge in Case.

Lamps.—Ophthalmic, Laryngoscopic, Colour Test.

Spiroid Pessary.

Chloroform Drop Bottle (Metal).

Chloroform Drop Bottle (Amber, new shape).

Bergmann's Ear Speculum.

Hartmann's Ear Forceps.

Heath's Ear Forceps.

Coin Catcher and Bristle Probang.

White Catheters.

Inverted Chloroform Mask.

Rampley's Needle Holder.

REYNOLDS & BRANSON, LTD.—*Continued.*

Steriliser Box.—Perforated.

Antrum Drills.

Bottle and Tube Holders (Metal).

Eye Electric Magnet.

X-Ray Apparatus.

Magnalium Balance and Weights, in Case.

Lantern Slides.

Celluloid Cylinders and Boxes for Dressings, etc.

STAND No. 12.

ZIMMER & CO., LTD., Frankfort-on-the-Maine, represented by WIDENMANN, BROICHER & CO., 33, Lime Street, London, E.C.

Allosan, the allophanic acid ester of Santalol; a solid, odourless antigonorrhœic of great efficiency and convenience of administration owing to absence of anything to indicate nature of complaint. In powder and tablets.

Brom-Validol Tablets. 15 grains Sod. brom., 1½ grain Magnes. usta, and 5 drops Validol. Sedative and nerve stimulant.

Dymal, didym-salicylate, wound powder, white, odourless, rapid healer.

Estoral, boric acid menthol ester. For common cold.

Estoral Snuff. The same with sacch. lactis added to render milder for children or sensitive adults.

Euquinine, the well-known tasteless quinine. Ethyl-carbonate of quinine. Same physiological action as ordinary quinine. No by- or after-effects.

Euquinine tablets.

Euquinine salicylate.

Euquinine tannate.

Eunatrol, chem. pure oleate of sodium. Cholagogue, etc.

ZIMMER & CO., LTD.—*Continued.*

Eunatrol Pills of various strengths.

Eupyrin (vanillin-ethyl-carbonate-p-phenetidine), mild and harmless antipyretic of stimulating qualities; for children and feeble aged people.

Eustemin, double salt, theobromine sodium-iodine sodium. For arterio-sclerosis and all conditions in which a combined iodine and theobromine treatment is required.

Fortoin, methylen-di-cotoin, antidiarrhœic; not an astringent but contractor of intestinal vessels.

Lygosin-quinine, wound powder of strongly antiseptic properties.

Lygosin-sodium for the treatment of female gonorrhœa.

Rheumatin, combination of salicylic acid and quinine, antirheumatic.

Saloquinine, quinine-ester of salicylic acid. Neuralgia, influenza, muscular rheumatism, polyarthritis, etc., etc.

Theolactin, theobromine sodium-sodium lactate; a diuretic.

Urosin, quinate of lithia. Gout remedy. Changes the insoluble uric acid into hippuric acid in the system, uric acid being excreted in the latter form, the former being insoluble.

Urosine tablets, effervescent powder, liquid.

Validol, chemical combination of menthol and valerianic acid. Now well known as a stimulant, sedative, preventive of sea-sickness and train sickness. Tablets, liquid, gelatine pearls, pralines, etc.

Validol camphoratum, for dental practice. Allays pain in decayed teeth.

STAND No. 13.

NEWTON, CHAMBERS & CO., LTD., The Laboratories, Thorncliffe, near Sheffield, and 331, Gray's Inn Road, London.

Izal Disinfectant Fluid, the product of scientific research into the oil yielded by the Thorncliffe coke ovens. This disinfectant is made to a uniform standard, and is tested physically, chemically, and bacteriologically before being despatched. It is proved to

NEWTON, CHAMBERS & CO., LTD.—*Continued.*

possess greater germicidal power than corrosive sublimate. It is prepared in the following forms :—

Izal Disinfectant Fluid for all ordinary disinfecting purposes.

Medical Izal.—A specially refined preparation for Medical and Surgical use.

Izal Surgical Dressings, Izal Soaps, Izal Cream, Izal Ointment, Izal Embrocation, Izal Capsules; the latter are a convenient form for administering internally.

Izal Disinfectant Powder for general sanitary purposes.

Izal Veterinary Fluid.—A combined germicide and insecticide of great power.

STAND No. 14.

CALLARD & CO., Food Specialists, 74, Regent Street, London, W.

Diabetic Foods.

Starchless, Sugarless, and Palatable.

Casoid Diabetic Bread :—

Albuminoids...	64·56
Fat	32·70
Mineral Matter	1·21
Moisture	1·53
Starch	Nil.
	100·00

Scientific Foods for Infants :—

	"Nurso" rusks.	"Nurso" biscuits.
Albuminoids	14·45	16·80
Carbohydrates, soluble ...	14·77	19·60
Carbohydrates, insoluble ...	47·28	26·15
Mineral Matter	2·28	2·96
Fat	13·61	26·85
Moisture	7·61	7·64
	100·00	100·00

STAND No. 15.

ARNOLD & SONS, 26, 30, and 31, West Smithfield, London, E.C.

Aseptic Hospital Furniture, consisting of Cabinets, Dressing Tables in their "Everbrite" (registered) Metal, which will not corrode or rust; Aurum, metal of a golden appearance; Vitreous and other Enamels. Operation Tables of all the latest designs.

Ambulance boxes of all kinds.

Adaptable (patent) I.R. Enemas.

Adaptable (patent) I.R. Sinus Syringes.

Auto-fume Machine for burning Medicated paper for Asthma, etc.

Paper for above can be medicated according to the prescription of the Physician.

Ballance's Mastoid Instruments.

Bier's Vacuum Apparatus.

Boxes for Sterilising I.R. Gloves.

Bruce Clarke's high-pressure (patent) Steriliser, with two-way patent valve.—The most perfect steriliser in existence.

Bruce Clarke's Kettles (patent) for Steriliser.—The only pattern which will keep the dressings sterile for months. All others cease to be sterile when cool.

Bruce Clarke's Kettles, as modified by Dr. Van Buren, suitable for Cottage Hospitals, etc.

Bismuth Paste Syringe for moulding purposes, as used at Great Northern Hospital.

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Catheters of all the latest models, in Elastic Gum, Silk Web, I.R., Silver, etc.

Cabinets for Instruments, Medicines, etc.

Cases of Operating Instruments.

Centrifugal Machines, Electrical and Hand.

Cole Baker's Post Nasal Curettes.

Curettes, Post Nasal, Lockwood's, Gottstein's, etc.

ARNOLD & SONS—*Continued.*

Clement Godson's Obstetric Bag for qualified Nurses.

Chloroform Inhalers.

Dental Instruments as used by Dr. Coleman.

Dental Sets as used at St. Bartholomew's Hospital.

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Fegen's (Dr.) Hooks for Scissors, etc., useful for House Surgeons, Nurses, etc.

Fegen's (Dr.) Abdominal Plasters, for removing tension on edges of wound.

Frankel's Ear and Nose Instruments.

Godwin's Flushing Abdominal Retractors.

Guillotines, Chas. Heath's, Arnold's patent Lever, and all the latest patterns.

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Hypodermic Syringes, all glass.

Hypodermic Syringes, all metal.

Hypodermic Syringes, asbestos pistons, etc.

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Jobson Horne's Ear and Nose Instruments.

Jordan Lloyd's Instruments.

Jones' (Macnaughton) Instruments.

ARNOLD & SONS—*Continued.*

Jessett's (Bowerman) Instruments.

Kelly's Urethral and Rectum Instruments.

Killian's Instruments for Œsophagoscopy, etc.

Killian's Instruments for Submucous, Septum, operations.

Khedkar's Tissue Forceps.

Knives for all operations.

Lumbar Puncture Syringes.

Lane's Bone Instruments.

Operation Tables, the "Perfect," general and gynæcological.

Ophthalmic Instruments.

Portable Ophthalmic Instruments, and all the leading models.

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Phonophore Stethoscopes, etc.

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Rectal Instruments.

Sinclair's (Sir W. J.) Drainage Tubes, as used in his operation for removal of Uterus per Vaginam.

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Urine Segregators (Luys).

Uterine Instruments.

Vaginal Douches (Wise's, etc.).

Vaccination Instruments.

ARNOLD & SONS—*Continued.*

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Waring's Instruments.

Woakes's Instruments.

Woolff's Instruments.

Zweifel's Instruments.

STAND No. 16.

R. H. WOODLAND, 38A, Commercial Road, Eastbourne, Sussex.

The "Eastbourne" Improved Invalid Chair (Patent No. 22790).—Specially designed for wheeling up or down stairs. "A" quality, £5 5s.; "B" quality, £4 4s.; "C" quality, £3 3s.

This Chair is designed for the easy and ready conveyance of Invalids from room to room or up and down stairs, and is peculiarly suitable to patients subject to nervousness or to whom shaking or jolting may be injurious. It moreover obviates much of the fatigue which is inseparable from the ordinary carrying chair.

By its use a patient of ordinary weight can be taken from room to room by one person only, or up or down stairs by two persons without strain or fatigue, and when it is explained that this can be done, and is done daily, by two nurses or domestics, its advantage over any other chair will be readily appreciated. Even patients of extraordinary weight can be conveyed up or down stairs by three domestic servants without any risk or strain.

It is claimed that the chair has the following advantages:—

1. It does away with any feeling of insecurity which patients feel by the use of the ordinary carrying chair, the weight of the patient and the chair itself resting at no time on the attendant.
2. There is no oscillation whatever.
3. All undue strain on the attendants is done away with.

R. H. WOODLAND—*Continued.*

4. The chair can be easily used by two maid-servants, and the necessity of employing men-servants or male attendants is obviated.
5. It is quite noiseless in action.
6. In addition to its use as a means of conveyance, the chair can be used as an ordinary armchair for the patient, or when seated at table, so that all occasion for being lifted from chair to chair is done away with.
7. The chair is very light and can be immediately moved from one part of a room to another at will.
8. The chair occupies very little space and there are no long handles in the way.

The wheels of the chair rest safely on any width tread, and if a hold of the handles is retained by the attendant at the back, there is no fear of the chair running down the stairs.

STAND No. 17.

THE MEDICAL SUPPLY ASSOCIATION, 228–230, Gray's Inn Road, London, W.C.

The Macdonald Steriliser.—This steam steriliser is produced as a cheap, extremely simple and absolutely efficient means of sterilising and drying dressings.

It is almost as simple as a pneumatic tyre, being constructed of an outer and inner chamber with a space between, and fitted with lid of a particular form, in which is enclosed a vacuum.

For use, a small quantity of water, 1 to 3 pints, according to the size of the steriliser, is poured into the space between the cylinders, the dressings, loose or in canisters, are placed in the inner chamber, the lid fixed, the tap on the lid opened, and the whole instrument placed on the fire or gas ring, or if desired the heating may be effected electrically. The sterilisation is continued for half an hour after steam has begun to issue vigorously from the escape tap. The tap is then closed and the apparatus set aside to cool

THE MEDICAL SUPPLY ASSOCIATION—*Continued.*

What is novel? The physical principle of steam condensing at the coolest part exposed is made use of to dry the dressings, and a glance at the instrument will show that all condensation takes place in the outer chamber, the inside of the lid being prevented from cooling by the vacuous space. In consequence, after the instrument has been cooled, the dressings, etc., may be removed and will be found to be perfectly dry, and in the most suitable condition for use, and this without any high pressure apparatus whatever. The efficiency of the steriliser is as great as that of the most expensive steriliser produced, and has been repeatedly tested bacteriologically.

Anthrax spores were killed in 10 to 15 minutes, Mesentericus spores which resisted boiling for 20 minutes were destroyed in 20 to 25 minutes, and Streptococci, Staphylococci, and Typhoid Bacilli were killed in 3 to 5 minutes.

Instruments may be sterilised along with the dressings.

The largest sizes are sufficient to sterilise all the coats and dressings for a major operation, the smallest sizes are designed to sterilise dressings and instruments for post-operative and other wounds, all that is necessary for repeated use being to drop the remains of the dressings and the instruments back into the steriliser and repeat the process. It will thus prove to be the most profitable investment a practitioner can make.

The steriliser, for which a patent has been applied, is manufactured solely by The Medical Supply Association, of 228—230, Gray's Inn Road, London, W.C.

The "Guyot-Greville" Operating Table, Pedestal pattern.—This table gives in the easiest possible way the Trendelenburg and all other required positions for surgical operations, and, in addition, movements for raising, lowering and rotating, also lateral movements.

"Grevillite Vitrenamel" Hospital Furniture.—This is made of steel, covered with vitreous enamel like the enamel on iron baths. This enamel is absolutely aseptic, does not chip, and readily withstands the action of heat, chloroform or antiseptic fluids. The uprights

THE MEDICAL SUPPLY ASSOCIATION—*Continued.*

are made in one piece with the horizontal pieces and, for more perfect sterilisation, curves are adopted instead of sharp angles.

Convenience of Carriage.—As these ward tables come apart, they pack in a very small space, consequently there is a great saving in packing-case and transport charges where these goods are ordered for export.

Summarising, we may say that the "Grevillite Vitrenamel" Hospital Furniture is—

Absolutely aseptic.
Will not chip.
Free from crevices or angles.
Packs easier than any other type of furniture.

STAND No. 18.

WILLIAM MARTINDALE, Manufacturing and Export Chemist, 10, New Cavendish Street, London, W.

The "Extra Pharmacopœia," XIVth Edition, by Martindale and Westcott. Just issued.

Most extensively revised and altered—a full notice of the issue appeared in the advertisement pages of the *British Medical Journal* of July 16th, 1910. Space prevents us from giving an account of the alterations here, but full printed matter will be forwarded on application. We have no hesitation in saying that the book, if not *the* newest and most useful, is *among* the best and newest in the show.

Regarding the XIIIth Edition, the *British Medical Journal* says, "Maintains its reputation for accuracy and completeness."

Chemist and Druggist:—"The 'Extra Pharmacopœia' is encyclopædic in range of information."

Agar-Agar in convenient form for treating Constipation.

Biscinod.—Bismuth-Cinchonidine-Iodine, rich in Iodine, for internal use.

Bougies.—Urethral, Iodoform, Protargol, etc.

WILLIAM MARTINDALE—*Continued.*

Clinical Test Cases in large variety, including Bacteriological Outfits and Urine Testing Cabinets. A recent introduction is the Opsonic Index Outfit for Collection of Specimens of Blood.

Capsules, Gelatin.—Apiol and Ergotin, Iodinol, Erigeron Oil Phosphorus.

Capsules, Glass (Martindale, the Original Manufacturer).—

Amyl Nitrite.—All doses for inhalation in fainting, in angina, spasmodic asthma, and post partum hæmorrhage.

Isobutyl Nitrite Capsules are similar in action.—*Vide* E.P. XIII.

A.C.E. Capsules, Ether Capsules, and C.E. Capsules, as also Chloroform Capsules, 1 drachm in each, are convenient for general anæsthesia.

Ethyl Iodide and Chloroform Capsules in asthma and whooping-cough.

Capsungs.—Gelatin Capsules, cone pointed, convenient for Ointments, *e.g.*, Gall c̄ Opio, Hyd. Ox. Flav., Cocaine, etc.

Cinnamic Aldehyde Capsules.—Special preparation in the treatment of malignant disease.

"Collapsubes," Extra Ph., of Ointments, Creams and Pastes, with Rectal and Catheter attachments.

Compound Asthma Fluid.—In three strengths to suit various cases. Largely prescribed and efficacious. A special Vaporiser for use is manufactured.

Dental Preparations.—A leading feature with the firm. (A special Dental Price List is issued.) The following may be mentioned:—

Adrenalin "Sterules" (Glass), for hæmorrhage from the gums.

Adreucaine "Sterules."

Arsenical Paste and Fibre for nerve treatment.

Cinnamon Paste.—A valuable dressing for septic discharges.

Iodoform Paste is similar.

Cocaine-Lanolin.

Martindale's Dental Anæsthetic.—Thousands of ounces have been injected with uniformly trustworthy result.

WILLIAM MARTINDALE—*Continued.*

"Conephrin."—A recent anæsthetic, efficacious for single extractions.

Compo, White and Red.

Dental Rubbers and Modelling Wax of all varieties.

Formosyl (Reg. Trade Mark) Tooth Paste.

Lysoform (The Ideal Antiseptic) Dental Dressing.

Lysoform Mouth Wash and Tooth Paste. (W. M., Sole Manufacturer for B.L. Co.)

Sodium Phenate Solution.—For dilution to form a refreshing mouth wash. Chemically accurate. *Vide* E.P. XIII.

Effervescent Sodio-Magnesian Aperient, and with Caffeine, also Sodium Phosphate and Sodium Sulphate. Effervescent Lecithin is new. Ask for full list of effervescent preparations.

Note.—W. Martindale was the first Manufacturer of the Sodio-Magnesian and other similar Effervescent Preparations.

Elixir Pepsin Bismuth and Strychnine.—A new and useful preparation.

Ether Soap, and with Mercuric Iodide.—Invaluable detergent in surgical operations.

Fæxin.—Active and Pure Beer Yeast in powder. In boils, furuncles and skin eruptions.

Fæxin Pills made with extract of the above are useful mild laxatives.

Formalin Tablets.—Palatable and portable mouth wash.

Glycerol Hypophosphitum, E.P. XIII.—Preferable to the Syrup in certain cases.

Glycetracta.—Glycerin Extracts of Drugs have the advantage of keeping well, being miscible and cheap. Apply for full list.

Glycaphorm.—Glycerol of Diacetyl-Morphine. Largely prescribed for cough.

Glycerol Glyceroph. Co. and with Medulla Rub.—Efficient Tonics.

Infants' Food, Martindale's, in three forms for various ages. Concentrated, simple in preparation. No danger of infection from impure milk.

WILLIAM MARTINDALE—*Continued.*

Iohydrin.—Chemically Di-iodo-iso-propyl alcohol. Contains 80 per cent. Iodine. Invaluable for inunction.

Lecithin Emulsion and Elixir.—New methods of administering pure Ovo-Lecithin.

"Lithion," Martindale.—In Uric Acid diathesis.

Lysoform.—W. Martindale was the Pioneer of this valuable disinfectant in this country.

Special Preps. are: Lysoform Mouth Wash, Tooth Paste, and Pastils.

Malto-Ferrose.—A useful digestive tonic for children and invalids.

Maricol.—Magnesii Ricinoleas Pur., E.P. XIII. Harmless, palatable, and suitable for children.

Maltolivine, Martindale.—Nutrient and intestinal lubricant.

Marrubin.—Glycerin Extract of Red Bone Marrow, well-known as a valuable remedy in anæmia, etc.

Mercuro-Zinc Cyanide Paste.—A useful antiseptic wound dressing.

"Methysal" Balm.—Analgesic, for rheumatism, pruritis and neuralgia.

Moss Dressings.—Cheap, antiputrescent, deodorant.

Nitroglycerin Tablets (W. M., the Original Manufacturer).—Valuable vasodilator.

"Ovules" of glyco-gelatin and theobroma basis for gynæcological use. Boric Acid, Ichthyol, Cocaine, Trypsin, etc.

Ozonic Inhaler.—For Catarrh, Coryza, etc.

Pil. Potentin Co.—Nervine Stimulant.

Piperazin Benz., Glyceroph., and Salicyl.—New salts with useful powers as uric acid solvents.

Radium and other Radio-active Substances in their therapeutic applications.

Sedeff.—Bismuth and Morphia in effervescent form. In sickness and derangements of digestive functions.

Sprays, Martindale's Glass.—Pocket and large variety of other forms.

WILLIAM MARTINDALE—*Continued.*

"Santalol" Capsules.—Containing pure Santalol—the active principle of the sandal wood oil.

"Solubes" (Registered Trade Mark).—For preparation of antiseptic lotions. Biniodide, Protargol, Perchloride, Sodium Chloride, etc.

Sterilised Dressings.—Our firm was the pioneer of these useful packages of reliable surgical requirements. We now have upwards of 200 different forms of packages, including complete sets for abdominal and eye operations, wrappers, towels, bandages, swabs, etc., etc. Full list will be sent on application.

Compressed Dressings, Martindale's, have the obvious advantage of small bulk. They are manufactured of the best quality of Lints, Gauzes, Wools, etc.

Syrupus Tann-Iodo-Phosphoratus and Syrupus Iodo-Tannicus.—For enlarged cervical glands, goître, and as a tonic after tonsillotomy.

"Sterules" (Registered Trade Mark).—Ophthalmic, as also Hypodermic. Convenient and reliable. Full list of contents on application.

Syringes, Hypodermic.—All-glass, Special Dental, etc.

Tabellæ with Chocolate Basis.—Of a large series the following may be mentioned :—

Anti-Asthmatic, E.P. XIII, containing Nitroglycerin, Sodium Iodide, Potassium Bromide, Lobelia, and Euphorbia. Extended use confirms value of this formula.

Blaud Pill, 4 gr.

Digitalis and Nitroglycerin.—In aortic disease of value.—*British Medical Journal*, March 16th, 1907.

Erythrol Nitrate.—Powerful Vasodilator.

Nitroglycerin, *vide* Antea. Hypophosphite Comp. = ½ dr. Syrup.

Nitroglycerin with Strychnine.—In migraine especially useful. *British Medical Journal*, ii, '06, 1622.

Pepsin, also with Bismuth.—Palatable digestives.

Phenacetin Comp.

Phenolphthalein, ½, 2 and 4 gr.

WILLIAM MARTINDALE—*Continued.*

Quinine Tannate, 1 gr.—Tasteless Quinine for children.

Suprarenal Extract, ½ gr.

Thyroid Extract, equal to 1½ and 5 grs. of Thyroideum Siccum *Off.*

Salicyl-Acetic Acid, 5 gr.

Theophylline Sodio-Sodium Acetate, 4 gr.

Thymalglycine.—A useful Mouth Wash, Throat Spray, Vaginal Irrigant, etc.

Trilactine.—Active Lactic Acid Bacilli for the treatment of intestinal fermentation due to pathogenic bacteria. Tablet and Liquid forms.

Trilactine Treated Milk.—In white stone jars (pint and quart size), freshly prepared in our laboratories daily, and delivered in London and the Provinces. This treatment of intestinal complaints has given excellent results.

Special brochure on the treatment, by W. Harrison Martindale, Ph.D. Marburg, supplied to the Medical Profession on request.

Tuberculin Test.—Diagnosis of Tuberculosis by Ophthalmo-Reaction.

Tylmarin (Registered Trade Mark).—The New Coumaric Derivative employed in conjunction with Cinnamic and Coumaric Injections and internal use of Cinnamic Aldehyde in malignant disease Cachets and Tablets are prepared.

Ung. Hyd. Ox. Flav., Martindale.—A special feature.

Ung. Thorii Oleas.—Has been used with great success in various forms of eczema.

Vescettes.—Effervescent Compressed Caffeine Citrate, Carlsbad Salt, Lithium Hippurate, Potassium Citrate, Sodio-Magnesian Aperient, etc.

Note.—The above is an abridged List of the items exhibited. It is requested that Visitors should apply at the Stall for Lists, and printed matter and samples to be sent on to them.

STAND No. 19.

THE HOLBORN SURGICAL INSTRUMENT CO., LTD., Holborn Circus, London, E.C.

Exhibit consists of a large assortment of up-to-date surgical Instruments.

The Holborn £25 Prize Set of Instruments for Surgeons commencing to practise.

The Holborn Solid Forged Knives.

The Holborn Mastoid Chisels and Gouges.

The Holborn Nasal Instruments.

The Holborn Laryngoscopic Sets.

The Holborn All-Metal Ear Syringes with two bayonet-jointed nozzles.

The Holborn 1s. First Aid Outfit.

The Holborn £4 *Post-Mortem* Set.

The Holborn £6 6s. Amputation Set in metal case.

The Holborn Vaccination Set.

The Holborn Hot-Air Chambers for Bier's treatment.

The Holborn Suction Glasses for Bier's treatment.

The Holborn High-Pressure Steriliser.

The Record Syringes.

All-Metal and All-Glass Injection Syringes.

Special Injection Syringe, with Mr. Barker's pure nickel needles and canula.

Barker's Syringe for local Analgesia.

The Imperial Dental Syringe.

Obstetric and Gynæcological Instruments.

Rotunda Set of Midwifery Instruments.

Tweedy and Wrench's Modification of Samway's Box.

Woodwark's Midwifery Case.

The Chelsea Hospital Pattern Instruments.

St. Thomas's Hospital Pattern Instruments.

Dr. Russ Wood's Improved Drop Bottles.

THE HOLBORN SURGICAL INSTRUMENT CO.—*Continued.*

Bruening's Instruments.

Killian's Instruments.

Freer's Instruments.

Peter's Modified Siegle's Speculum.

Noebel's Ear Masseur.

Batten's Forehead Magnifier.

Hajek's Modified Jansen-Middleton's Nasal Cutting Forceps.

Croft's Gag.

Kelson's Swab Holder.

Scudder's Clamps.

Cancer Hospital Transfixing Forceps.

Pye-Smith's Swab Squeezing Forceps.

Lower's Elevating Forceps for Kidney Operations.

Twynam's Gland and Pile Forceps.

Lane's New Bone Screwing Instruments.

Glatzel's Mirror for Examining Nasal Breathing.

Blake's Gallstone Forceps.

Payr's Gigli Saw Holder.

Kocher's New Intestinal Clamps.

Mayo's Abdominal Retractors.

Fein's Adenoid Curette.

Aseptic Metal Box for Sterilising Gloves.

Various New Continental Patterns of Ear, Nose, and Throat Instruments.

Pegler's Cotton Wool Holder.

StClair Thomson's Instruments.

Moynihan's Instruments.

Charles Ryall's Abdominal Retractor.

Charles Ryall's Modified Reverdin Needle with crank bent shaft.

St. Mark's Hospital Pattern Rectal Instruments.

Peake's Needle with removable head.

Improved Michel's Suture Set.

THE HOLBORN SURGICAL INSTRUMENT CO.—*Continued.*

Greig's Scalpel Carrier and Steriliser.

Cunnington's Breast Shield.

Microphones.

Lithotrites and Evacuators.

Strauss' Improved Sigmoidoscope.

Pardoe's Urethoscopes.

Anæsthetic Apparatus.

Sterilisers for Instruments and Dressings.

Aseptic Pocket Cases.

Glassware.

Hartmann's Wood Wool Preparations.

Hartmann's Catgut.

Aseptic Furniture.

Etc., etc.

STAND No. 20.

SKEFFINGTON'S PATENT RECUMBENT INVALID LIFTERS.

Temporary Address: 49, Ulundi Road, Blackheath, S.E.

Skeffington's Patent Recumbent Invalid Lifters—

The Skeffington.

An extremely simple device which can be easily clamped to any bedstead.

It is made in two forms. In the single form it aims at effecting two objects: (1) Preventing a weak patient from slipping to the foot of the bed. (2) Raising a patient into a sitting posture and maintaining him in it without exertion either on his part or the part of the attendant for any time desired. The double form fulfils the foregoing objects and also enables the patient to be raised entirely off the mattress, so that the latter can be turned or changed underneath the patient while he is still lying on his back.

In the single form the appliance consists of a hardwood roller attached by simple clamps and stays to the head of the bed; to this roller is attached a special long sheet by means of a slight

SKEFFINGTON'S PATENT RECUMBENT INVALID LIFTERS.—*Continued.*

steel rod passing through a hem in the end of the sheet and fitting into a groove in the roller. The roller is rotated by a worm gearing and handle, by turning which both sheet and patient are drawn up towards the head of the bed. A few turns bring the patient on to the pillow, a few more turns into a sitting posture in which the whole spine is thoroughly supported.

The double form of the appliance has a second roller at the foot of the bed, a few more turns of the handle sufficing to lift the patient entirely free of the mattress.

The rollers are made to fit any breadth of bed.

Suitable sheets are supplied.

THE ANASTASIA,

A further device operated by the same roller, is designed for the relief of patients, such as wounded soldiers or the victims of accidents, requiring constant sanitary attention. It enables *one* attendant to change with celerity and ease an ordinary sheet, and also dress the patient's back.

By a few turns of the handle the frame that surrounds the bed in such a position as not to interfere with the bed clothes is elevated to the desired height. Removable webs covered with mackintosh are stretched across it, upon which the patient lies in a perfectly horizontal position. The apparatus can also be tilted to any desired angle.

This apparatus can be clamped to a hospital bed.

STAND No. 21.

J. & J. TAUNTON, LTD., Belgrave Works, Sherbourne Road, Balsall Heath, Birmingham.

Agents in every Town within the United Kingdom and Abroad.

Taunton's Patent "Diagna" Spring Mattress has been proved by the Medical and Legal Profession to be 37 per cent. stronger than

TAUNTON'S (Patent) "DIAGNA" INSTITUTION BEDSTEADS.

DIAGRAM OF ANTI-SAGGING SPRING MATTRESS.

Guaranteed against SAGGING or BREAKING in use during 20 YEARS.

✳

SPECIAL NOTE.

1. The Tension of Springs is from the centre.
2. Every Spring has an EQUAL strain.
3. Perfectly level surface.

SPECIAL NOTE.

ALL SPRINGS are in accordance with Government Test, and are exactly as supplied to H.M. Government for Indian, Admiralty and War Departments.

ALL WIRE is specially tempered to resist atmospheric influences, and therefore most suitable for Foreign or Home Trade.

VERDICT in ACTION for INFRINGEMENT of PATENT.

TAUNTON'S BEDSTEADS are 37 per cent. stronger than any other make.

LORD JUSTICE VAUGHAN-WILLIAMS said:—The object of the Patentee is that you should get the greatest strength at the point where there is the greatest work.

LORD JUSTICE STERLING said:—This is an invention whereby the tension, which is generally uselessly distributed all over the mesh, is concentrated at the centre part, where it is most required.

BEDSTEADS for HOSPITALS, WORKHOUSES, ASYLUMS & OTHER INSTITUTIONS.

J. & J. TAUNTON, Ltd., Patentees & Sole Manufacturers, Birmingham

J. & J. TAUNTON, LTD.—*Continued.*

any other make. It is fitted to all "Diagna" Institution Bedsteads, and is guaranteed against Sagging or Breaking in use during 20 years.

These exhibits are worthy of Special Attention.

The New Surgical Bedstead, with Seat of Bedstead to elevate from either end, is quite a new feature, and was designed specially for Hartshill Hospital.

The Improved Design Fracture Bedstead, as supplied to all Leading Hospitals.

The Latest Improved Hospital Cot, as specially designed for British Medical Exhibition.

Special Strong Swing Bassinette for Hospitals or Workhouses.

The Dublin "Rotunda" Maternity Bedstead. The Most Up-to-date Hospital Bedstead obtainable.

Taunton's Latest Production.—Special Bedstead for Children's Homes. Cleanliness, comfort, durability guaranteed.

The New Folding Bed Screen.

The Special New Improved Design Bed Rest. Can be as readily attached to a Household as a Hospital Bedstead.

Special Registered Design Cot Tray for Institution purposes.

The New Patent Bed Table should be in every Hospital. Readily attached, easily cleaned.

The Cheapest and most useful Bed Trolley for removing Hospital Bedsteads from Ward to Ward or Ward to Verandah.

Taunton's Special Patent Extension Pulley and Sectional Weight.

Taunton's are Specialists in manufacture of every description of Hospital Bedsteads and Fitments. Send for Catalogue and Specifications to—

J. & J. TAUNTON, LTD., Sherbourne Road, Balsall Heath, Birmingham.

STANDS Nos. 22 and 23.

MATHIEU, 4, Hercules Place, Holloway, London, N. Paris: 113, Boulevard Saint Germain.

Universal Operating Table "Mathieu."

" " "Doyen-Mathieu."

A Selection of Instruments newly invented by us or by the Professors of the University of Paris.

A Selection of Electric Apparatus of our make, Unspillable Patent Accumulator, Portable X-Ray Coil, etc.

And a Selection of our General Instrumentation.

STAND No. 24.

GEORGE BACK & CO., 13, Devonshire Square, Bishopsgate, London, E.C. Telegraphic Address: Diabetes, London. Telephone No.: 2838 London Wall.

The G. B. Diabetes Whisky (sample free to medical men on application).

Always advertised in *British Medical Journal* and *Lancet.*

STAND No. 25.

J. & J. TAUNTON, LTD., Belgrave Works, Sherbourne Road, Balsall Heath, Birmingham.

For particulars of Exhibit, see Stand No. 21.

STAND No. 26.

PARKE, DAVIS & CO., 50, Beak Street, Regent Street, London, W.

MODERN THERAPY.

Adrenalin.—The constringent and blood-pressure raising principle of the suprarenal gland. Supplied in Solution, Tablets, Gauze Tape, Inhalant, Ointment, and Suppositories.

Cascara Evacuant.—An efficient palatable tonic laxative.

PARKE, DAVIS & CO.—*Continued.*

Chlor-Anodyne.—A reliable sedative and antispasmodic.

Chloretone.—Hypnotic, antispasmodic, analgesic. Supplied in Powder, Capsules, Gauze, Inhalant and Vaginal Suppositories.

Cocillana Compound Syrup.—An exceptionally efficacious bronchial sedative and expectorant, with slight laxative action.

"Codrenine."—A local anæsthetic and ischæmic solution containing adrenalin and cocaine.

Ergot Aseptic.—A physiologically-standardised preparation of ergot for hypodermic or oral administration.

"Eudrenine."—A local anæsthetic and ischæmic solution containing adrenalin and eucaine.

Euthymol Toilet Preparations.—Cold Cream, Cream, Liquid Dentifrice, Shaving Cream and Stick, Tablets (for the breath), Talcum Powder, Tooth Paste and Tooth Powder.

Fluid Extracts, Standardised.—Reliable galenical preparations for prescription in place of tinctures, infusions, etc., or for the production of tinctures by dilution.

Formidine.—A germicide for internal or external use, more powerful than iodoform, and without its disadvantages. Supplied in Powder, Capsules, and Gauze.

"Glaseptic" Nebulisers and Sprays.—The most perfect appliances on the market.

Hydrated Magnesia.—A milk-like fluid which presents several advantages over other forms of magnesia, both in therapeutic efficiency and convenience.

Hydrogen Peroxide Solution.—An exceptionally stable form of this powerful germicide, which is non-caustic and non-toxic.

Hypodermic and Serum Syringes. The "Glaseptic" and "Glasmet."—Embody several important improvements.

Inhalants.—Acetozone, Adrenalin, Chloretone.

Iodalbin.—Gives the therapeutic effect of the iodides without "iodism." Supplied in Powder and in Capsules.

PARKE, DAVIS & CO.—*Continued.*

Iodalbin and Mercurol Tablets.—A combination of the organic compounds of iodine and mercury, which give better results than the inorganic salts.

Lactone Tablets.—Reliable and convenient for souring milk.

Lantern demonstrations at frequent intervals, illustrative of :—

The Preparation of Serums and Toxins.
The Physiological Standardisation of Drugs.
The Manufacture of Pharmaceutical Products.

Mercurettes.—For mercurial inunction without the unpleasant features of mercury ointment.

Nutritive Liquid Peptone.—Beef peptone and extract of malt in a cordial vehicle.

Pituitrin.—An extract of the infundibular portion of the pituitary gland. Powerful vaso-motor constrictor. Cardiac stimulant and diuretic.

Selection of Hypodermic Pocket Cases, also Medicine Cases for the pocket, carriage, motor-car, yachts, expeditions, mission stations, etc.

Serums, etc.—Antidiphtheria, Antigonococcus, Antistreptococcus (Polyvalent), Antitetanus (Standardised), Antitetanus Dusting Powder.

Taka-Diastase.—An amylolytic of great power, which also possesses the property of digesting fibrin.

Thyroidectin.—Employed in exophthalmic goitre.

Tuberculin Discs.—For the ophthalmic diagnosis of tuberculosis.

Tuberculin for the Von Pirquet Reaction.—For the cutaneous diagnosis of tuberculosis.

Tuberculin Ointment (Moro).—For the cutaneous diagnosis of tuberculosis.

Typhoid Agglutometer.—A simplification of the Widal test.

Vaccines, Bacterial, prepared in the Laboratory of St. Mary's Hospital, London, under the supervision of the Director, Sir A. E. Wright,

PARKE, DAVIS & CO.—*Continued.*

M.D., F.R.S., etc.—Acne, Influenza Bacillus, Staphylococcus, Streptococcus, Gonococcus Neoformans, Pneumococcus, Tubercle, Typhoid.

PARKE, DAVIS, & CO., London.

STAND No. 27.

MESSRS. JOHN J. GRIFFIN & SONS, LTD., of Kemble Street, Kingsway, London, W.C., are showing—

The Harcourt Chloroform Inhaler, with various improvements and additions devised by Dr. Harcourt:—

1. To steady the bottle, a plate, at one end of which the bottle rests, is attached by a ring and set-screw to the upright rod which carries the inhaler.

2. To set and keep the temperature right, so that one bead is always floating and the other sunk, a smaller plate is similarly attached below, on which is a night-light, whose flame supplies any desired amount of heat according as it is raised or lowered and more or less immediately beneath the bottle.

3. To administer from a "plenum," in cases in which the in-breathing of the patient cannot be used, a small bellows, with a reservoir to be interposed when it is desired to convert an intermittent into a constant stream, is provided, which can be connected with the inlet of the chloroform bottle.

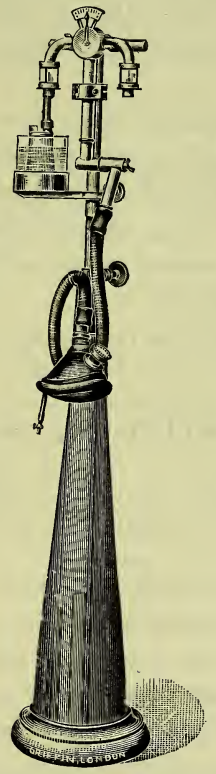
4. To provide for the administration of oxygen, or oxygen and air, in any desired proportion, a conical brass vessel, with a small opening above and a valve chamber beneath, is connected with a bottle of oxygen. The rate at which oxygen is being delivered from the bottle can be seen from the lifting of the valve. During expiration the oxygen passes into the brass vessel; during inspiration the patient breathes in after it has passed through the chloroform bottle the oxygen which is then supplied, together with that which has been stored.

5. To administer oxygen only, the same arrangement is used, but water warmed by the night-light is substituted for chloroform.

The HARCOURT CHLOROFORM INHALER

(*PATENTED*).

The apparatus is designed to give an accurate dose, which may be maintained or varied at will. It is compact and portable, and is easily manipulated by a single person. In hospitals the Inhaler is most conveniently supported on the stand illustrated below, while many operators sling it round the neck. In either of these cases the universal joint is connected to the face-piece by means of a flexible tube.



Some Advantages of Administering Chloroform with the Harcourt Inhaler.

1. It affords the easiest and most precise method of administration yet devised.

2. It gives the anæsthetist a means of supplying a constant and regular dose without replenishing the chloroform bottle during the operation.

3. The risk of an overdose is reduced to a minimum.

4. It produces calm and deep narcosis.

5. There is less vomiting both during and after administration.

6. It effects a saving in chloroform (40 to 50 per cent.).

THE OPERATOR—

Knows by the position of the pointer the **strength of the dose.**
Sees the action of the valves indicating the **frequency of respiration.**
Hears the slight click of the valves indicating, by the force with which they close, the **strength of respiration.**

Sole Makers and Patentees—

JOHN J. GRIFFIN & SONS, Ltd.,

Makers of Scientific Apparatus,

KEMBLE STREET

KINGSWAY, LONDON, W.C.

STAND No. 29.

THE HOLMQUIST ELECTRIC CO., LTD., 52, Regent Street, London, W. Telephone: 9278 Central.

The Holmquist "Universal" Electric Hot Air and Light Apparatus. The Holmquist Flexible Electro-Thermal Pads. The Holmquist Folding Electric Light Bath Cabinet. Massage Rollers, etc.

The Universal Electric Hot Air and Light Apparatus has been designed for the Local Treatment by Hot Air or Light or both combined.

The Holmquist Flexible Electro-Thermal Pad is a simple but effective device, which entirely supersedes Hot Water Bottles, Hot Compresses, and Hot Fomentations.

The Holmquist Folding Electric Light Bath Cabinet is constructed for use at patients' homes, and can be connected to the ordinary electric wall plug.

The above apparatus can be inspected and demonstrated at our Show Room.

STAND No. 30.

L. HANNEMANN & SON, 1, Park Parade, Harlesden, N.W. Offices: 82, High Street, Harlesden. Telephone: 1006 Harlesden. Manufacturers of—

Hannemann's Medicated Biscuits (Antacid and Laxative).

Hannemann's Medicated Biscuits will be found to supply a long felt want, inasmuch as they possess mild aperient qualities, and are a reliable and agreeable form of administering medicine for constipation, indigestion, and all disorders of the stomach.

They are delicately flavoured, and are especially valuable for ladies and children, who often find the usual medicinal aperients offensive and objectionable. They are exceedingly pleasant to eat and their action is quite gentle, which is of the utmost importance, as the majority of aperients purge and injure the lining of the stomach.

One after meals is invaluable in cases of indigestion, acidity,

L. HANNEMANN & SON—*Continued.*

or heartburn, and three or four eaten over-night, or on rising, act as a very mild non-purgative aperient.

They were entered in the International Confectioners' Exhibition, Agricultural Hall, where they were awarded a Special Diploma.

A Few Opinions.

"They will be most useful both as an aperient and as an antacid in gastric troubles. Their palatability is a great point, there being nothing drastic or harmful in their composition.

"——— ———, M.B., Ch.B. (Vict.),
"M.R.C.S. (Eng.), L.R.C.P. (Lond.)."

"I should certainly recommend them as a mild and harmless laxative, both for adults and children, and women during pregnancy.

"——— ———
"L.R.C.P.S. Edin., L.R.C.P. Edin.,
"F.F.P.S.G."

"I consider them of great advantage to children, old people, and others requiring a medicated biscuit, as they contain no article in any way injurious to the body, and—what is so important—are palatable.

"——— ———,
"M.R.C.S. (Eng.), L.S.A. (Lond.), Consulting Surgeon ——— Hospital for ———, late Registrar and Chloroformist ——— Hospital for Children, Member of the Society for the Study of Disease in Children."

Sir John Moore, M.A., M.D., D.P.H. (Dublin), D.Sc. (Oxon.), F.R.C.P.I., writing in the *Dublin Journal of Medical Science*, says:—"They are at once palatable and effectual."

The *Nursing Times* says:—"They contain ingredients which correct the hyperacidity in the gastric juice."

Guy's Hospital Gazette says:—"They are crisp, and have a distinct antacid effect."

L. HANNEMANN & SON—*Continued.*

The *Medical Times* says :—" They correct acidity, aid digestion, and have a decided laxative effect."

National Health says :—" We can highly recommend them as a mild aperient, non-purgative, and are invaluable in cases of indigestion and insomnia."

STAND No. 31.

E. B. MEYROWITZ, 1A, Old Bond Street, W.

Electro-Surgical and Ophthalmological Instruments, mainly of English manufacture. The exhibit comprises the latest developments in instruments for the examination of the eye, throat, nose, ear, and the bladder and urethra, and several instruments of interest to the general practitioner. Messrs. Meyrowitz are the sole manufacturers of several instruments; amongst those which are shown are :—

Dr. Edridge-Green's Lanterns and Wool Tests for Colour Blindness and Colour Perception.

Dr. J. H. Tomlinson's Scotomagraph.

Mr. W. Brooksbank James' Tests for Stereoscopic Visual Acuity, and Diaphragm Test.

Mr. W. Wyndham Powell's Urethroscope, with aero operating attachment, and an entirely English-made Irrigation Cystoscope, made after designs by J. W. Thomson Walker, Esq., F.R.C.S. Other cystoscopes are shown with optical systems by Carl Zeiss, Jena, which are a great advance on older pattern instruments.

Among other instruments exhibited are :—

A New Electric Ophthalmoscope, which takes into account the refraction of the eye itself, and produces a beam of light which gives a brilliant and uniform illumination of the fundus without distressing the patient.

A Projection Lamp for producing a brilliant and evenly illuminated circle of light for use in eye operations; which is worked from either electric light mains or batteries, and can either be fitted in a bracket or held by an assistant.

E. B. MEYROWITZ—*Continued.*

A New Portable Motor Transformer for light and cautery.

Pocket Primary Batteries for light and cautery.

Ophthalmometers.

New Pattern Keratometer.

An Amblyoscope with independent lamp control.

Pocket Rheostats for using current from electric mains to light surgical lamps.

A New Electric Microphone for the Deaf, having special features and improvements.

Other surgical and electrical instruments.

STAND No. 34.

PARKE, DAVIS & CO., 50, Beak Street, Regent Street, London, W.

For particulars of exhibit, see Stand No. 26.

STAND No. 35.

HOSPITALS & GENERAL CONTRACTS CO., LTD., 25 to 35, Mortimer Street, London, W. (almost facing Middlesex Hospital, top of Berners Street, Oxford Street, W.). Telephone Nos.: 5840, 5841 Gerrard. Telegraphic Address: Contracting, London. Hours of Business: Week-days, 9 A.M. till 10 P.M.; Saturdays, 9 A.M. till 7 P.M.; Sundays and Bank Holidays, 8.30 till 12 noon.

Patent "Porcelite" Hospital Furniture, which does not chip or change in colour, as supplied to India Office, etc.

The "Witcux" (Registered) Sterilising Drums, as supplied to the Admiralty, India Office, the London Hospital, St. Thomas's, and St. George's Hospitals, etc.

Improved High Pressure Sterilisers (10 to 25 lb. pressure), vertical and horizontal.

Portable Operation Tables.

Complete Outfits, including Dressings, for Aseptic Operations at Private House, which can be hired for 21s.

HOSPITALS AND GENERAL CONTRACTS CO., LTD.—*Continued.*

Portable Apparatus for lighting small Lamps.

Series of useful and handy supplies :—

Sets of Splints.

Dressing Cabinets.

Sets of Minor Operating Instruments.

Trial Cases.

Personal Weighing Machines.

Consulting Room Couches.

Instrument Sterilisers.

Cautery Sets.

M.D. Fountain Pen and Clinical Thermometer.

Teske's new Universal Stethonescope and patent Guillotine.

Dr. Hodgson's Inhaler.

Bruening's Instruments.

Compact Sets of Instruments for operating on the Ear, Nose, Throat, and Eye, etc.

New Models in Hypodermic and Serum Syringes.

Dr. Maple's Foot Rest.

Complete Catalogue containing over 550 pages, post free on application, to Members of the Medical Profession. Invaluable as a book of reference.

Inspection of show-rooms invited.

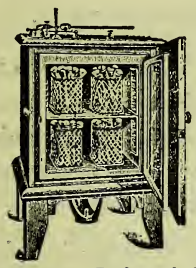
STANDS Nos. 36 and 37.

CHAS. HEARSON & CO., LTD., 235, Regent Street, London, W. ; Telephone : Gerrard 5362. Factory : Hope Works, 68, Willow Walk, Bermondsey, London, S.E. ; Telephone : Hop 163.

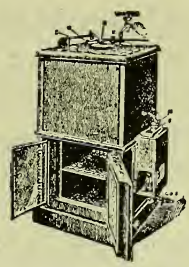
All our Biological Incubators are regulated by means of a patent capsule, superseding the old method of mercurial and thermostatic bar for regulation of temperature, and are constructed to

Hearson's Specialities.

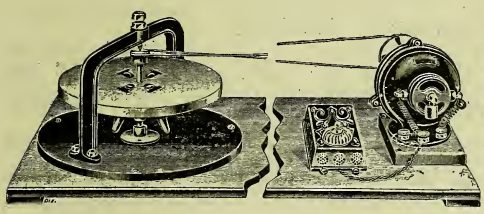
Used for all the Principal Researches in the Pasteur Institute, Paris, and in all the Bacteriological Laboratories in the world, and by all the Medical Officers of Health.



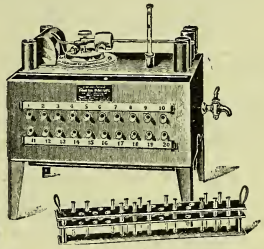
Hearson's Patent Biological Incubator for researches in Embryology and Histology.



Hearson's Patent Cool Biological Incubator for Gelatin Cultures.



Centrifuges for Hand or Mechanical Power. Total Capacity from 30 c.c. to 5 litres.



Hearson's Patent Opsonic Incubator for the determination of the Opsonic Index, including Wassermann's reaction.

SHAKING MACHINES.	PARAFFIN BATHS AND OVENS.	STERILIZERS.
WATER BATHS.	HOT-AIR OVENS.	OIL BATHS.
EMBEDDING APPARATUS.	MILK STERILIZERS.	AUTOCLAVES, Etc.

PARTICULARS AND PRICES ON APPLICATION.

CHAS. HEARSON & CO., LTD.,

235, REGENT STREET, LONDON, W. AND Hope Works, Willow Walk, Bermondsey, S.E.

CHAS. HEARSON & CO., LTD.—*Continued.*

work with coal-gas, acetylene, petroleum, electricity, and ice; the mode of heating or cooling being determined by the temperatures required and the conditions under which the apparatus is to be used.

Model "A" is constructed to work with any kind of inflammable gas.

Model "B" shows the method of heating with petroleum oil.

Model "C" can be worked with any kind of gas, petroleum, or with electricity, for heating, and ice for cooling.

The special feature of this apparatus is that it will maintain a fixed temperature, whether the air in the room is above or below the temperature required in the incubating chamber.

Model "D" Cellular Incubator for the use of Students in Schools of Bacteriology. Any number of drawers may be removed without affecting the temperature of the remainder, and each student (up to the capacity of the machine) can have a drawer to himself.

Model "E" is constructed to work by electricity.

Model "F" for gelatine cultures is the same as Model "C," but without the use of ice. It is not advisable to use this incubator in very hot summer weather, although it is satisfactory as long as the running water is below the temperature required in the chamber.

Models "A," "B," and "E" can be used for embedding and inspissation.

Model "G" Wire-bound Electrical Incubator without water jacket, regulated by means of different capsules from 50 degrees C., 75 degrees C., 110 degrees C., and 150 degrees C. Can be used as a drying oven and sterilizer.

Model "H" Incubators. From 10 degrees to 15 degrees C.

Model "I" Incubators at 0 degrees C.

Model "J" Parasitic Incubators.

Model "K" "Thermostatic" Nurses for premature infants.

CHAS. HEARSON & CO., LTD.—*Continued.*

Centrifuges. New English Model as suggested by Dr. C. J. Martin, of the Lister Institute. Six cups of 50 c.c. capacity. 8,000 r.p.m.

Combination Centrifugal Machines and Electrical Shakers.

Autoclaves.

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LEMCO AND OXO (LIEBIG'S EXTRACT OF MEAT CO., LTD. Established 1865). Cattle Breeders and Food Experts. Originators of Concentrated Beef Foods. Contractors to Hospitals, Infirmaries, and Nursing Institutions, the British and Foreign Governments, etc. Head Office: 4, Lloyd's Avenue, London, E.C. Factories: Fray Bentos (Uruguay), Colon (Argentina) and London. British Depôts and Agencies: London, Belfast, Birmingham, Brighton, Bristol, Dublin, Edinburgh, Glasgow, Hanley, Hull, Liverpool, Manchester, Newcastle-on-Tyne, Norwich, Nottingham, Plymouth, Portsmouth, Sheffield, Whitehaven.

Cattle Farms exceed 4,000,000 acres.

Standing Stock of Cattle: Over 250,000 head.

Chief Scientific Adviser in United Kingdom: Sir Henry E. Roscoe, P.C., F.R.S., Ph.D., LL.D., D.C.L.

All concentrated foods are subjected to analysis and also to scientific control throughout the various stages of manufacture.

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Lemco.—The original and only genuine Liebig Company's Extract of Beef. The only meat extract ever prepared under the control of Baron Justus von Liebig. It is the most concentrated form of beef known; absolutely free from fat, which so frequently spoils home-made beef-tea. Keeps for any length of time in any climate.

Oxo.—The Liebig Company's Fluid Beef. A nourishing food beverage in fluid form, being a scientific blend of beef extract and beef fibrin. Oxo possesses a pleasant, full beef-broth flavour, which is a proof of its high concentration.

LIEBIG'S EXTRACT OF MEAT CO., LTD.—*Continued.*

Nursing Oxo.—A preparation of Oxo in peptonised and unflavoured form, made specially for the sick-room and hospital.

Fray Bentos Corned Beef.—Prepared from the finest fresh beef by special processes which ensure its being brought to table like delicious fresh-pressed beef.

Fray Bentos Ox Tongues.—A delicious tongue for invalids; taken from the cattle which provide Lemco and Oxo.

Fray Bentos Ox Tail Soup.—A deliciously flavoured soup, ready for instant use; made in two varieties, thick and clear. It is prepared under the personal superintendence of a first-class chef under hygienic conditions, which are unobtainable in private kitchens.

STAND No. 39.

DOWN BROS., LTD., 21 and 23, St. Thomas's Street, London, S.E. (Opposite Guy's Hospital). Manufactory: King's Head Yard, S.E.

Surgical Instruments and Appliances, a collection of original models, consisting principally of new ideas or modifications of existing patterns, carried out at the suggestion of Surgeons, manufactured and introduced to the profession by Down Bros.

Aseptic Hospital Furniture, specimens of most recent types of Operation Tables, possessing many original features, and adapted to the requirements of modern surgery, manufactured by Down Bros., and also many improved models of Aseptic Furniture for use in the operation theatres and wards of Hospitals.

STAND No. 40.

W. H. BAILEY & SON, LTD., 38, Oxford Street, London, W.

Operation Theatre Furniture, *i.e.*, Operation Tables, Sterilisers, Instrument Tables, Cabinets, etc., including our Special Registered Operation Table, which we have made for numerous hospitals, both London and Provincial.

A Special Consulting Room Couch, which we have supplied to over 300 members of the medical profession.

DOWN BROS.'

Surgical Instruments

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AWARDED

The Grand Prix (highest award),
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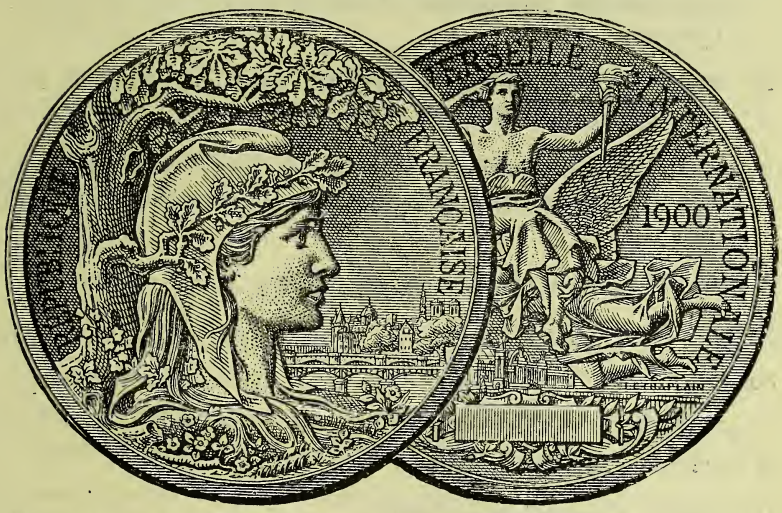

Members of the Association visiting the BRUSSELS EXHIBITION are specially invited to inspect DOWN BROS.' EXHIBIT in the British Industrial Hall; also exhibiting at Buenos Aires.

DOWN BROS., LTD.,

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S. MAW, SON & SONS, 7 to 12, Aldersgate Street, London, E.C.

Aseptic Furniture.—The Gauvain Bedstead and Back Splint for treatment of Spinal Curvature, as in use at the Lord Mayor Treloar Cripples' Home and College, Alton.

Patent High-Pressure Sterilisers.

The Beulah Dressing Drums.

An improved Standard Lamp, suitable for Eye, Ear, or Throat work.

The Lee-Percival Oxygen Generator, portable and effective; should supersede the cumbersome method of distributing Oxygen in Cylinders.

Mr. Stuart-Low's Volatilising Inflator, for treatment of Middle Ear Disease by means of Kelvolin Vapour.

Mr. H. T. Herring's Steriliser, for sterilising Elastic Gum Catheters. The catheters are sterilised by boiling, and lubricated at the same time.

A series of new forms of Catheters, suggested by Mr. H. T. Herring.

Crouch's Microscopes.

Self-Regulating Bacteriological Incubators, as used at St. Mary's Hospital by Sir Almroth Wright.

A new form of Electric Centrifuge.

Dr. Martin's Water-Driven Centrifuge.

Dr. MacNaughton Jones's Rectal Infusion Apparatus for the continuous administration of Saline Fluid.

Wyndham Powell's Apparatus for treatment of Gonorrhœa by Irrigation, as in use at the Station Hospitals of the Army Medical Department.

Mr. Sydney Scott's Model of Semi-Circular Canals and Auricle for demonstrating the flow of fluids in the canals.

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J. NESBIT-EVANS & CO., Floodgate Street, Birmingham.

(1) Nesbit-Evans (Birmingham) Patent "Anti-Sagging" Surgical and General Hospital Bedstead, as supplied to:—

Glasgow Western Infirmary, also
Glasgow Royal Infirmary, &c.

(2) Nesbit-Evans (Birmingham) Patent "Anti-Sagging" Indian and Colonial Hospital Bedstead.

(3) Nesbit-Evans (Birmingham) Patent "Chorlton Union" (Manchester) design Hospital Bed.

(4) Nesbit-Evans "Anti-Accident" Medical and Surgical Ward Children's Cot.

(5) Nesbit-Evans (Birmingham) Patent "Lunatic" Asylum Bedstead.

(6) Nesbit-Evans (Birmingham) Patent Adjustable Invalid Bed.

(7) Nesbit-Evans (Birmingham) Patent "Epileptic" Bed.

(8) Nesbit-Evans (Birmingham) Special "Parturition" (Maternity Ward) Bedstead.

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ALLEN & HANBURYS, LTD., 48, Wigmore Street, Cavendish Square, London, W.

Selection of Operation Tables for use in the Theatre, also new models of Portable Operating Tables.

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Electrical Appliances for Parallel Light Rays for use with Sigmoidoscopes, Urethroscopes, &c., &c.

Apparatus for the treatment of Nævus by means of solidified CO_2 Gas.

A general assortment of new patterns of Surgical Instruments, Dressings, &c.

Sterilizers for Hospital use, and also portable models for Instruments and Dressings.

ALLEN & HANBURYS, LTD.—*Continued.*

Stack's Patent Dressings Sterilizer.

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Lane's Registered Pattern Instruments for the Surgical Treatment of Fractures, latest models.

Waring's Portable Operation Table, Registered Pattern.

A. & H. Adjustable Back Rest, as supplied for Gall Bladder, Sacrum, &c.

Paterson's Electrically Heated Saline Infusion Apparatus.

The St. Margaret's Patent Invalid Lifter.

STAND No. 44.

OPPENHEIMER, SON, & COMPANY, LTD., 179, Queen Victoria Street, London, E.C.

"Anæstiform."—Non-toxic local anæsthetic for general surgery and dental operations. Issued in Aseptules containing 15, 30 and 60 minims. Sterile and ready for immediate use.

Calcium Salts (Lactate—Iodide—Permanganate Palatinoids).—These salts are best given in Palatinoids, which keep the drug active and fresh and in a loose powdered condition.

Calcium Lactate is given to increase the coagulability of the blood and improve nutrition. The salt depreciates in therapeutic value if kept, unless hermetically sealed, as in Palatinoids.

Calcium Iodide has been recommended in diabetes and ulcers; in the former disease it is stated to give good results after failure of all treatment, including codeine, and to remove the depressing feeling of "illness" common to these patients.

Calcium Permanganate has been found effective in inflammatory conditions of the alimentary canal, gastritis, rodent ulcer, and quite recently in lead poisoning. Dr. Stevens (*British Medical Journal*, May 14th, 1910) recommends the drug always to be

OPPENHEIMER, SON, & COMPANY, LTD.—*Continued.*

given in Palatinoid form, otherwise it has a tendency to nauseate the patient.

"Grindeline" for Asthma.—Has the advantage that it will not induce a "drug habit," and has proved successful even when ordinary treatment failed; it contains Grindelia, Euphorbia, Potassium Iodide, Trinitrin, etc.

"Lactigen."—A pure culture of genuine Bulgarian Lactic Acid Bacilli for the preparation of soured milk. Various independent investigators have proved this the most active and the only uncontaminated culture on the market. In tubes sufficient to curdle 1 pint of milk.

Mercury Atoxylate Cream, for intramuscular injection in Syphilis.—Avoids the toxic effects which attend the employment of most organic arsenic salts. Colonel F. J. Lambkin, R.A.M.C. (*Lancet*, January 1st, 1910), states that: "Under it all symptoms clear up in a most marvellous way." Issued in "Aseptules" (sterile, hermetically sealed tubes), each sufficient for one injection.

Dr. Muthu's Formaldehyde Inhaler.—This light cone-shaped mask, covering both the nose and mouth, has an absorbent pad inside, upon which the medicament is dropped, thus the inspired air becomes saturated with medicated vapour. It is valuable in pulmonary complaints and has been employed in tuberculous cases, in combination with sanatorium treatment, by Dr. Muthu for the last 10 years. Formaldehyde Inhalant is specially made to this doctor's formula.

Automatic Oxygen Generator and Oxinhalator.—Portable, safe apparatus which will yield Oxygen automatically at any time, thus rendering it instantly and permanently available for medical use. The apparatus may be seen at work.

Palatinoids and Bi-Palatinoids.—Afford exact therapeutic results otherwise unattainable; they are universally admitted to be the best method of administering drugs. Recently they were awarded the Grand Prix and Gold Medal, Paris Universal Exposition, 1910.

OPPENHEIMER, SON, & COMPANY, LTD.—*Continued.*

Professor Ortner's results in treatment of Anæmia with Bi-Palatinoids at the Royal Imperial Hospital, Vienna, are as interesting as they are remarkable (*ask for pamphlet*).

"Pulverettes" (Patent) Powder Pills.—These resemble pills, but really consist of a frail chocolate and sugar shell enclosing the medicament in powder. When pressed the coating cracks like an egg-shell, and the powder is released. The "Pulverette" is vastly superior to compressed drugs or ordinary pills, and is destined to supersede them entirely. The *Lancet* describes them as a "real advance on ordinary pills." A casual examination will demonstrate this superiority. All formulæ usually made into pills, cachets, compressed tablets, etc., can be made in "Pulverette" form.

"Roboleine."—A scientific tonic food and reconstructive in a concentrated form. It contains fresh Red Bone Marrow, Expressed Extract of Calves' Rib Bones, and Cream of Malt, with Hypophosphites of Lime, Soda and Potash, in palatable form, which is readily absorbed and assimilated. It is rapidly superseding Cod Liver Oil, over which it possesses the advantages that it does not repeat or nauseate the patient; it is more easily digested; it is pleasant to take; is free from objectionable oily flavour; can be taken in hot weather without disturbing digestion. "Roboleine" is indicated in debility, anæmia, rickets, tuberculosis, wasting, and all other forms of malnutrition, in convalescence, etc., etc.

Seawater Plasma, for subcutaneous injections.—Gives a rapid and radical effect in the following diseases:—Acute gastro-intestinal affections of infancy, digestive disorders of adults and the resulting neuroses, and skin diseases. It is collected 200 miles from land under the strict aseptic conditions insisted upon by Dr. Robert Simon, of Paris. It is sterilised and rendered isotonic with the blood by dilution with distilled water. Issued in a permanently sterile condition in hermetically sealed Aseptules containing 100 c.c.

STAND No. 45.

THE APOLLINARIS COMPANY, LTD., 4, Stratford Place, Oxford Street, London, W.

Apenta Water.

Apenta (from the Natural Bitter Water Springs near Budapest).—A natural Aperient Water, containing sulphate of magnesia and sulphate of soda in relatively large proportions, the former predominating very decidedly, and thus giving the water the special quality whereby it stimulates the gastro-intestinal canal without causing irritation. It contains also lithium. Great importance should be attached to the fact that the Springs from which the Apenta Water is drawn have been placed under strict independent scientific supervision. Many eminent scientific authorities have examined and tested the efficacy of this water, and recorded opinions in its favour.

Professor Oscar Liebreich writes :—

"The constancy of the Apenta Water makes the use of it indicated not only as an occasional purgative, but in systematic courses of treatment. It is particularly recommended for the regulation of tissue change in the most diverse diseases, in obesity, chronic constipation, portal obstruction, haemorrhoids."—*Therapeutische Monatshefte*, Berlin, June, 1896.

Experiments have been made under the direction of Professor Gerhardt, in the Charité Hospital, Berlin, demonstrating the value of Apenta Water in the treatment of Obesity and its influence on change of tissue.—*Berliner klinische Wochenschrift*, March 22nd, 1897.

The late Professor W. S. Bogoslowsky, Director of the Pharmacological Institute of the Moscow University, and President of the Society for the Preservation of Public Health, published clinical observations establishing the value of Apenta Water in obstinate constipation.—*Arbeiten der Moskauer Abtheilung für Volksgesundheitspflege*, No. 6.

THE APOLLINARIS COMPANY, LTD.—*Continued.*

Professor Baccelli, Consulting Physician to the King of Italy, testifies to its uniformity and certainty of action, and recommends its use.

Professor Lancereaux, of Paris, says :—

"It is one of the best natural purgative waters known."

Professor Dr. Rosenstein, Royal University of Leyden, Consulting Physician to H.M. the Queen of Holland, says :—

"I have obtained favourable results with Apenta Water in chronic constipation, obesity, and similar troubles in which the use of Bitter-water is indicated."

APOLLINARIS WATER.

Apollinaris Water.—The Apollinaris Water, impregnated only with its own gas, possesses both the advantages of a natural mineral water and the effervescence due to the high proportion of carbonic acid belonging to the artificial mineral waters of commerce. In consequence of its agreeable taste and valuable dietetic qualities, it has met with the highest approval by the medical profession and the public throughout the world, and preference is now universally accorded to it as a dietetic and delightful beverage by reason of its effervescence and valuable combination of alkaline carbonates and the purity of its source.

It is widely prescribed and recommended by medical men for mixing with hot milk, being specially adapted for this purpose, as it provides a remedial agent of much value in influenza, catarrhal affections of the mucous membranes, and in cases of feeble digestion and stomachic hyper-acidity, by virtue of its chemical constitution and also for the reason that milk, when mixed with Apollinaris, remains sweet and palatable for longer than with ordinary artificial waters.

Apollinaris Water is bottled with its own natural gas. The large bottles costing 6d. each contain about 40 per cent. more than an ordinary syphon.

Particular attention is directed to the convenience and economy

THE APOLLINARIS COMPANY, LTD.—*Continued.*

of the Large Stone Bottle of Apollinaris Water for use at dinner parties and other festivities.

The cork is easily and quickly drawn, and the earthenware preserves the Water in cool and sparkling condition throughout long dinners and in heated rooms, and in order to keep the Water effervescent, suitable Patent Stoppers are sold by the Company, and great economy is effected by their use.

Johannis Water.

The Johannis Spring is situated at Zollhaus, Hessen-Nassau, near Niederselters, Rhenish Prussia. It is a very deep spring, abundantly charged with carbonic acid gas, and its product, Johannis Water, forms a very pleasant sparkling table beverage of absolute purity. It goes well with wines, milk, etc., and is peculiarly suitable for invalids, owing to its soothing properties and freshness on the palate. It may be taken with much advantage in cases of dyspepsia, gout, rheumatism and indigestion, and is perfectly adapted for ordinary drinking purposes.

The Johannis Spring at Zollhaus has been inspected and fully reported upon by the *Lancet* Special Analytical Commission, and the resulting report and analysis testify to the admirable organic purity of the water.

Johannis Lithia.

In order to provide a mild Lithia Water containing a constant and definite amount of lithium salt and suitable for regular and continuous use, the Proprietors of the Johannis Spring have introduced Johannis Lithia, which is prepared by adding one grain of lithium carbonate to each small bottle of Johannis. The profession is thus provided with a perfectly pure natural mineral water, containing just as much and no more of this valuable solvent of uric acid as is needed, combined with the eliminative and purifying properties of the natural Johannis Water.

The *Practitioner* says :—

"We consider this an excellent combination of Art and Nature, and believe it will be found of great utility."

STAND No. 46.

C. A. HOEFFTCKE, LTD., 21, Woodstock Street, corner of Oxford Street and Bond Street, London, W. Inventors and Makers of Appliances for Joint Diseases, Fractures, and Orthopædy.

Hoefftcke's Appliances for Joint Diseases.

In tubercular joint disease the main object of the Surgeon is to keep the bones of the joint perfectly still, by means of weight extension, so as to prevent the condyles from rubbing together. In our appliances the weight of the body is taken off the legs, and by means of an extension strap at the ankle and the tuber ischia as counter pressure point, the bones are not only prevented from rubbing together, but are pulled apart to a certain extent, enabling the patient to walk about while the bones are separated.

Some Surgeons combine this treatment with inoculation or Bier's treatment.

Hoefftcke's Appliances for Fractures.

In cases of fracture our appliance enables the patient to walk at once, the fracture uniting in less time than if the patient remained in bed, there being no danger of having joints stiffened or legs shortened as by the use of wooden splints or plaster of Paris. These appliances are made on the same principle as those for joint diseases.

Hoefftcke's Appliances for Fracture of the Arm and for alternate flexion and extension of elbow joint.

Hoefftcke's Corset for Lateral Curvature.

This Corset is moulded on to a plaster cast taken while the spine is extended as much as possible, and maintains the improvement which can be obtained by exercises and massage.

Hoefftcke's Leather Corset, with elastic head extension, as used for Spinal Caries, Angular and Severe Cases of Lateral Curvature.

C. A. HOEFFTCKE, LTD.—*Continued.*

Hoefftcke's Plaster Bed for Spinal Caries, Angular and Severe Cases of Lateral Curvature.

By means of this Bed the improved position of the spine (obtained by means of the extension Corset) is maintained at night time.

Openshaw's Appliance for obtaining Extension of the Spine in the treatment of Scoliosis and Caries or Injuries to the Spine. The appliance consists of a bed made of plaster of Paris or leather, which is accurately moulded to the whole dorsal surface of the patient from the head to the heels. It fits with the utmost accuracy, with the result that the patient can lie on the back without the slightest discomfort. It is specially fitted with an arrangement of pulleys, weights, and a Glisson's sling, in order to extend the spine. Counter-extension is obtained by means of a leather pelvic girdle, which is attached by straps to the iron framework of the bed. This pelvic girdle is accurately moulded to the iliac crests and pelvis, thus obviating pressure sores. For Scoliosis there is also attached to the middle line of the bed, at a point corresponding with the centre or most prominent part of the dorsal convexity, or hump, a broad band of webbing, which passes laterally across the convexity, and is attached to a horizontal iron bar fixed in the bed. The convex ribs rest upon this band of webbing, and are consequently continually subjected to considerable pressure in an anterior direction. The influence of such pressure upon the dorsal convexity is enhanced by the recumbency of the patient, and by the simultaneous extension of the vertebral column.

Openshaw's Kyphotic Support.

Openshaw's Appliance for Hallux Valgus.

Hoefftcke's Appliances for Paralysis, talipes varus, equino varus.

Hoefftcke's Valgus Night Splint and Valgus Spring Boots.

C. A. HOEFFTCKE, LTD.—*Continued.*

Artificial Legs (Hoefftcke's System).

Hoefftcke's Artificial Legs are made on the same principle as their appliances for Joint Disease. The weight of the body resting on the tuber ischia leaves the crotch quite free, thereby avoiding the constant chafing in the groin. In case the leg is amputated below the knee, the support is taken from below the knee, or if the stump is too short for that purpose, the weight is equally divided between the tuber ischia and the tuberosities of the condyles of tibia and fibula.

Hoefftcke's (Collier's Improved) Tubes and Needles for Artificial Anus (Patented).

This contrivance is used for guarding against early fæcal contamination of the wound and of the surgeon's fingers, the tube being attached to the bowel before the latter is opened. The tube may be relied upon to stay in place for 48 hours. In some cases it has stopped on for eight days. The tubes and needles are made in three different sizes.

STAND No. 47.

ARNOLD & SONS, 26, 30 and 31, West Smithfield, London, E.C.

For Particulars of Exhibit, see Stand No. 15.

STAND No. 48.

B. KUHN & CO., 16, Rood Lane, London, E.C.

CHINOSOL.—Antiseptic, Disinfectant, Non-poisonous, Non-corrosive, Odourless.

Chinosol from its introduction was recognised by the Medical and Surgical Profession as a most valuable antiseptic.

Chinosol is non-poisonous, non-irritant, and readily soluble in cold water, yielding clear and uniform solutions.

B. KUHN & CO.—*Continued.*

Chinosol solutions do not coagulate albumen, and exert a great penetrating action on diseased tissue; they keep wounds healthy, favour granulation, and hasten the healing of all wounds undergoing suppurative processes.

The germicidal action of Chinosol is far greater than that of carbolic acid, and under given circumstances is even superior to that of corrosive sublimate, without in the least degree manifesting the objectionable and dangerous character of these two antiseptics.

Chinosol further exhibits a strong deodorising action, and is for this reason now largely employed in odourless disinfection for domestic, hospital, and more extensive sanitary purposes.

PAPAIN (Finkler).—Dyspepsia.—Vegetable Digestive Ferment. Gastric Ulcer, Phthisis, Diphtheria, Croup.

Papain (Finkler) is obtained from the juice of the *Carica papaya* or melon-tree, and by a special process the purity and uniformity of the product is guaranteed. Its distinctive property of exercising a marked digestive action on albumen in acid, alkaline, and neutral media has long been recognised by the medical profession, and justifies its claim as an ideal digestive ferment.

Papain (Finkler) increases the secretion of gastric juice and exerts its digestive action with equal power throughout the digestive tract, and in this respect offers exceptional advantages over the animal ferments pepsin and pancreatin.

Papain (Finkler) further possesses a pronounced antiseptic action, which may be further increased by the addition of antiseptics like Chinosol; this, in combination with its known power of promptly dissolving dead albumen, has established it as a valuable remedy for the removal of the false membranes in diphtheria and croup. This treatment is in no wise diminished by the constitutional effects of the antitoxin treatment.

Papain (Finkler) is indicated internally in gastric or intestinal pain; vomiting, whether as a symptom of chronic alcoholism or of

B. KUHN & CO.—*Continued.*

pregnancy; loss of appetite, with consequent impaired nutrition; acid dyspepsia; chronic stomachic catarrh, and all complaints arising from faulty digestion.

Externally, it is effective in diphtheria and croup locally to remove false membranes.

ETHYL CHLORIDE.—The special feature of our Ethyl Chloride is that it is guaranteed pure by analysis. We have the latest improvements for all our metal cylinders and glass tubes. We also supply it in reservoirs for practitioners to fill their own tubes.

SALVATOR GRAPE JUICE (unfermented), made from the fresh French grapes grown in the sunny districts of Burgundy and Bordeaux. The Grape Cure is indicated to increase renal activity and reduce acidity. In anæmia, chlorosis, dyspepsia, chronic affections of the liver, stone, gravel, and gout. A substitute for the fresh grapes, which cannot be obtained all the year round. Saves much time when grapes are prescribed for children, as the nurse is saved the time and trouble of pressing the juice out of the grape.

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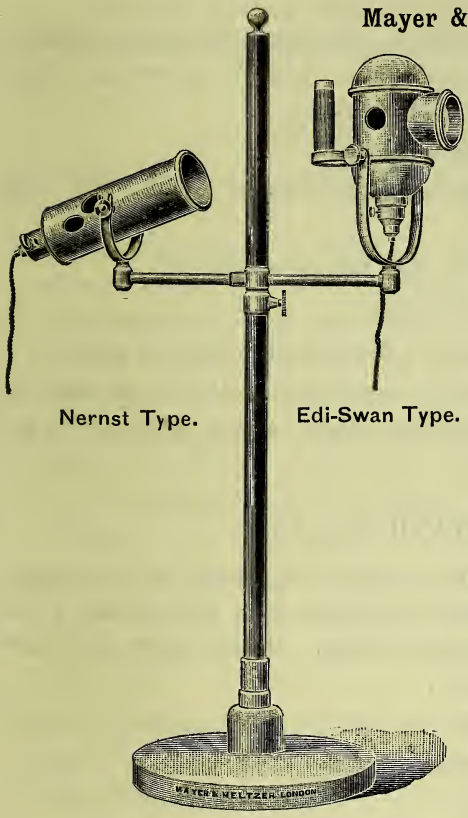

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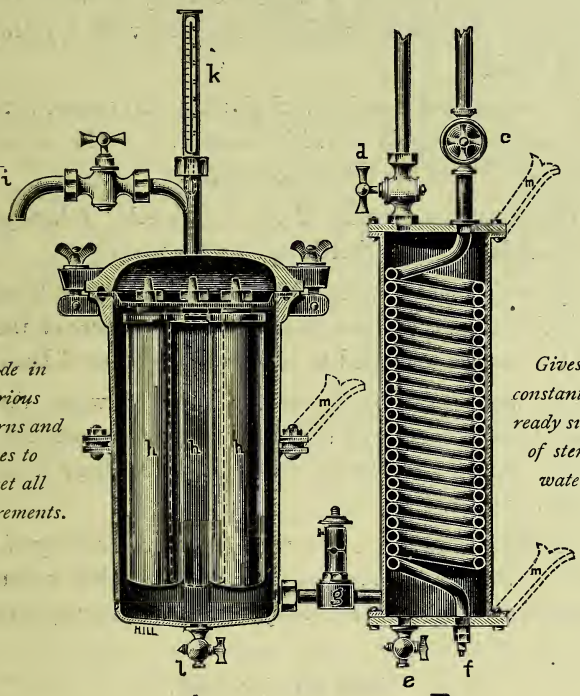

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"Mr. Lee's Antiseptic-air Producer is the best apparatus we have seen for the treatment of Respiratory Disease by inhalation, and represents, in fact, a successful effort to place the method on a scientific basis. The apparatus is of simple construction. It consists of an adjustable burner, a boiler and an exit tube which serves the purpose of a steam injector. The injector, which takes the place of the ordinary spout of a kettle, is the principal and most important feature of the apparatus. Steam at a slight pressure, controlled by a safety valve, escapes through a small coned orifice and is projected along the spout. By injection action this current of pressure steam draws in considerable volumes of air at the inlets on the tube just above the boiler. The result is that a current of warm, moist air, with an output of from 200 to 300 feet per minute, is projected into the room. If the water in the boiler contained 1 per cent. of phenol the steam on escaping would contain the phenol in exactly the same proportion, but afterwards, of course, the mixture is considerably diluted with air. So long as the water supply with its antiseptic is maintained, so long therefore is a current of warm, moist, antiseptic air furnished. In short, the apparatus effects the warming, moistening, and charging of the air of the room with an antiseptic which is obviously available for the patient suffering from any form of respiratory disease. It should be added that the spout can be turned in either a vertical or horizontal direction, so that, if desired, the current of antiseptic, moist, warm air can be projected straight to the patient."

At the Annual Meeting of the British Medical Association at Belfast in July, 1909, Her Excellency the Countess of Aberdeen paid a visit to inspect the invention, which secured the highest approval of the many practitioners present.

Since its exhibition at Belfast, a number of minor details suggested by the Medical Profession have been adopted in connection with the apparatus, which have considerably added to the

S. LEE—*Continued.*

excellence and efficiency of its operation. The expressions of high approval in 1909 have been continued, and the results obtained from the use of the apparatus have been of the most satisfactory nature.

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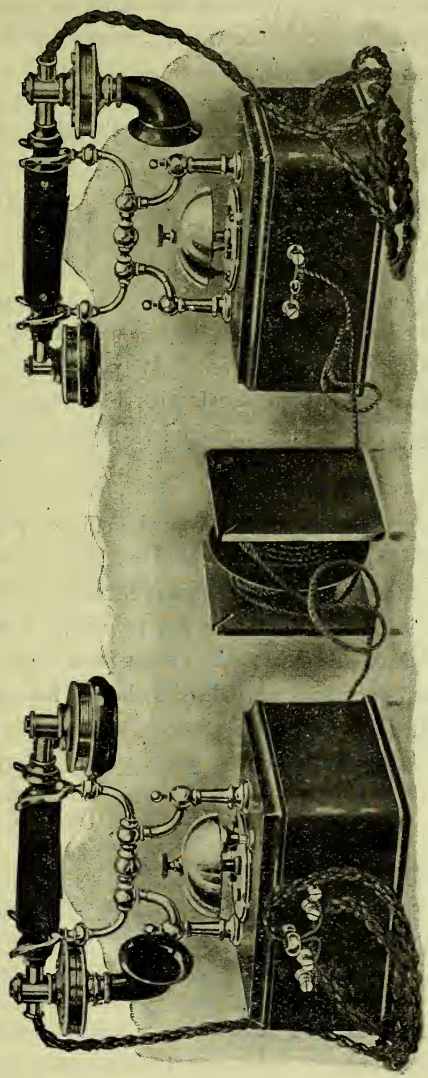

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STEPHEN SMITH & CO.—*Continued.*

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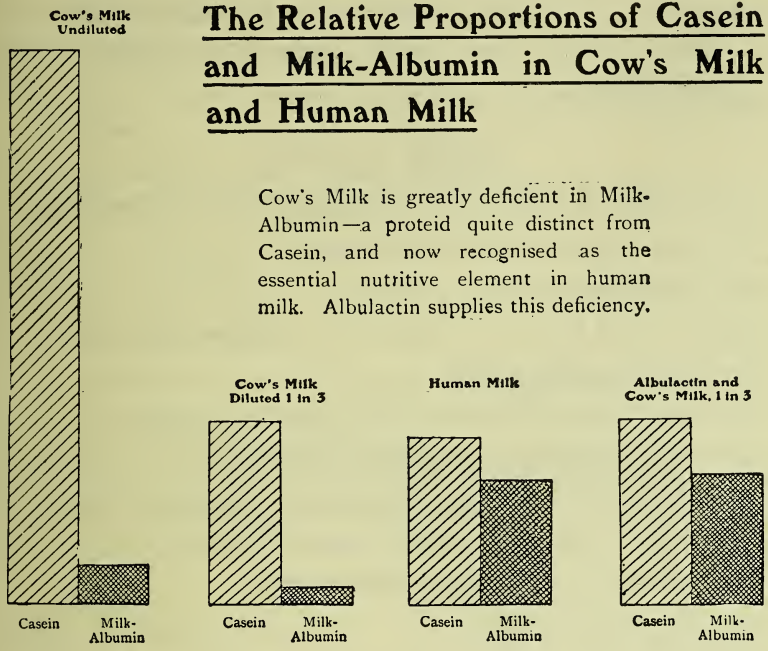

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Post-Nasal.

FRANK A. ROGERS—*Continued.*

Rogers' Aquol Atomizer (Pattern E), or Rogers' Physicians' Spray, with movable tips, by means of which the spray can be sent in any direction. In metal for oils, and in vulcanite for watery solutions.

Rogers' Consulting Room Sprays.—Designed for the use of Specialists and for Hospital work.

Rogers' Aquol Atomizer (Pattern D).—A one-ball continuous spray, with all-vulcanite fittings.

Rogers' Miniature Aquol Atomizer for Nose and Throat, all vulcanite, with plain or graduated glass.

Rogers' Pocket Spray.—A very compact instrument, in soft leather case for the pocket. Always ready for instant use for Nose or Throat, without removal from its case. Ideal for Nasal Catarrh, Hay Fever, etc.

All-Glass Sprays and Vaporizers, various.

Rogers' Nasules and Nasule Spray.—A system of spraying various solutions direct from sterilised glass capsules.

Rogers' Powder Insufflators, various.

Rogers' Spray-Inhaler, for use with oils and asthma solutions; it produces an extremely fine vapour, which can readily be inhaled.

Rogers' Improved Aquol Vaporizer.

Rogers' Aural Syringe.

Rogers' Nasal Syringe.

Rogers' Douches for Aural, Nasal, Ophthalmic or Antral work.

Rogers' Kloram Inhaler.—A new Chloride of Ammonium Inhaler, simple, compact, and easily managed. The most reliable and effective apparatus for the production and administration of *neutral* Ammonium Chloride vapour.

Rogers' Pocket Urine Test Case.

Rogers' Hypodermules (Hypodermic Capsules).

Rogers' All-Glass Hypodermule Syringe.

Rogers' Sterilized Paraffin, for subcutaneous injection.

FRANK A. ROGERS—*Continued.*

Paraffin Injection Syringes.

Rogers' Throat Sponges.

Rogers' Antiseptic Handkerchiefs.

Rogers' Sanatoria Pockets.

Nasal Plasma Tablets (Rogers).

Marine Plasma Tablets (Rogers).

Aquol (Rogers).—A bland, water-like oil, produced by the fractional distillation of Petroleum. Colourless, odourless, tasteless.

Benzoinaquol (Rogers).—A modification of the above, combining the well-known balsamic properties of Benzoin, etc.

Rogers' "Kroskut" Lozenges.

Tablet Lozenges (Rogers).—Made with a fruit basis (with no excess of sugar), in a series of formulæ, for post-nasal medication by vaporisation, designed to give the full medicinal dose in the smallest compass.

Troch. Heroin (Rogers).

Pastil. Heroin Co. (Rogers).

Glucaphen (Rogers).—A concentrated nitrogenous food-tonic, specially useful in Neurasthenia, Phthisis, Anæmia, Malnutrition in children, convalescence, and old age; it can be administered in combination with the patient's usual diet.

Cyprol (Rogers).—A specific in Pertussis.

Mentharenal (Rogers).—An antiseptic solution, containing the active principles of Suprarenal Gland, combined with Cineol, Menthol, Thymol, and Salicylic and Boric Acids. Indicated as a nasal spray or douche in Hay Fever, etc.

Muscatol.—A perfumed, non-poisonous insect repeller, proved in various parts of the world to be an absolute protection from Mosquitoes, Midges, Sandflies, Gnats, and other insect pests.

The Muscatol Spray.

The Simplex Vaporizer (G. H. Bell's U.S.A. Patents), for producing a continuous warm medicated vapour. An ideal portable, self-contained Bronchitis and Croup Kettle.

FRANK A. ROGERS—*Continued.*

The Simplex Inhalers (G. H. Bell's U.S.A. Patents).

Simplex Inhalant (Rogers).

Nasalants (Rogers).—Inhalants for Nasal use.

Medical Attaché Cases, fitted for Specialists', General Practitioners' and Patients' use.

STAND No. 131.

THE OPEN AIR SHELTER COMPANY, 140, North End, Croydon.

The "Stanley Bates" Open-air Shelter for the Treatment of Consumption, Chest Weaknesses, and Nervous Complaints.—A shelter for use day and night, all the year round and in all weathers, designed from the personal experience of the author of "Open-air at Home: Sanatorium Treatment Continued" (John Wright, Bristol; 2s. 6d. net.), in which book it was first described.

As a sleeping shelter the design has been found to possess many advantages over the ordinary type of revolving shelter. It secures perfect ventilation, all available sunlight and protection from wind and rain.

Opinions of the Medical Press extracted from reviews of "Open-air at Home":—

The *Lancet* (5th March, 1910).—"A shelter . . . as near perfection as is possible in this world."

British Medical Journal (16th April, 1910).—". . . . well illustrated with photographs and sketch plans of the author's shelter, from which it will be seen that he thought out the details very thoroughly."

The *Hospital*.—"We hope these 'anchored aeroplanes,' wherever possible, will speedily be brought into general use."

The demand for "Stanley Bates" Shelters resulting from the publication of "Open-air at Home" is met by the Open Air Shelter Company, which supplies them in several sizes for private and municipal purposes, ready-made in sections for easy erection on arrival. Carriage paid to any station. Illustrated list on application.

STAND No. 132.

BUZZELL-FLANDERS CO., Boston, U.S.A.

Flanders' Standard Catgut.

After closing the tubes, they are subjected to one hour's sterilisation at 225° Fahr. in a pressure steriliser.

Each lot is subjected to a thorough bacteriological test by an experienced disinterested bacteriologist, and his report filed before any ligatures are on sale.

In addition to the examination for sterility, each lot is carefully tested for tensile strength.

Each tube bears a file mark to facilitate opening.

The labels are etched on the glass. No paper labels or extraneous matter inside the tubes.

In Plain, Chromic, and Bartlett Method Catgut.

Obtainable at all the leading Surgical Instrument Houses.

Used by the leading Surgeons and Hospitals in America.

STAND No. 133.

"Secret Remedies." Price, 1*s*.

STAND No. 134.

FELTOE & SMITH, LTD., Sole Manufacturers and Proprietors of the "Spécialité" Brands of Lime Juice Cordial and Lemon Squash, 25, Augustus Street, Regent's Park, London, N.W.

Feltoe's "Spécialité" Lime Juice Cordial is guaranteed absolutely pure and of the highest excellence. It is remarkable for its entire freedom from the usual musty flavour. It is a delicious drink, health-giving and refreshing beverage, and of the greatest possible strength, and non-alcoholic.

Feltoe's Lemon Squash Crystals.—A highly-concentrated Fruit Juice in Crystal form. The contents of one bottle, costing 4½d., will make 2 gallons of delicious lemonade.

STAND No. 135.

MAXSOL LIMITED, Disinfectant Manufacturers, Garratt Green, Tooting, London, S.W. City Offices: 54, Cheapside, E.C.

Maxsol is regarded as a most efficient antiseptic. It contains the three isomeric cresols in a high degree, and is thereby more powerful as a germicide than phenol and similar disinfectants.

It is non-poisonous, absolutely soluble in water, without the slightest turbidity, is non-corrosive, and may be used freely without causing irritation or injury to the tissues.

Surgical instruments are unaffected by its use.

Maxsol Toilet Cream and Vaseline.—A combination of Maxsol with pure emollients suitable for general toilet use, and being strongly antiseptic acts as an efficient lubricator for surgical use.

Maxsol Soap contains a fixed percentage of Maxsol, and is of great value for cleansing the skin previous to operations.

Indicated in eczematous conditions and for all toilet purposes.

Maxsol Mouth Wash (antiseptic) will be found fragrant and pleasant to use.

Rowan's Alpyne Fluid.—Distilled from pine, strongly antiseptic and germicidal. Is comparatively inexpensive and is extensively used for the disinfection of Hospitals, Institutions, and large areas generally.

STAND No. 138.

JOHN TIMPSON & CO., LTD., 104, Golden Lane, E.C. Sole Agents for Johnson & Johnson.

"Zo" Adhesive Plaster.—This adhesive plaster represents the greatest progressive step in the art of plaster making that has been reached in centuries of pharmacy. Owing to the great care taken in its manufacture, it will be found superior to all other plasters; and on account of its cleanliness, convenience, and freedom from irritating qualities, it has been pronounced by all who have tried it to be the most suitable of all adhesive plasters for general surgical purposes.

JOHN TIMPSON & CO., LTD.—*Continued.*

Medicated Plasters.—The chief characteristics of the Medicated Plasters manufactured by Johnson & Johnson are their uniformity, their quickness of action, their pronounced physiological effects, and their increased therapeutic value. More than this, they are all adhesive at body temperature, easy to apply, and to remove. When ordering or prescribing medicated plasters, it is essential to specify Johnson & Johnson to ensure the correct and desired effects.

"Canthos."—Canthos is an improvement upon the officinal blister by reason of the perfection of its base. The base is a soft, oleaginous mass holding the active blistering principles in an active condition. It also softens and prepares the skin for sure and rapid blistering. The base of Canthos Plaster accomplishes very important results—perfect preservation of the "Cantharides," quick and painless blistering, is cleanly and adhesive enough to stick, yet will not tear the skin; its properties are never changing.

Red Cross Cotton.—Cotton for surgical purposes should fill many exacting requirements. It should be made only of fine grade cotton, as the poorer grades are full of short fibres, and are very irritating to wounds. It should be soft, resilient, and springy, free from dirt, free from chemicals, simply pure cotton, surgically clean. Red Cross cotton fulfils all these requirements, and is the cotton that should always be used.

Camphenol.—Camphenol is a liquid disinfectant and antiseptic. It is an emulsion or saponification of the three higher cresols and camphor. In Camphenol the cresols, which are the most active of the coal-tar derivatives, are present in their most active form. Camphenol is non-poisonous, non-corrosive, leaves no stain, and has no destructive action upon clothing or fabrics. Camphenol is largely used as a surgical dental antiseptic.

In addition to the above, Johnson & Johnson are manufacturers of Ligatures, Lints, Gauzes, Bandages, Fumigators, etc., the quality of which is embodied in the one word "Perfection."

JOHN TIMPSON & CO., LTD.—*Continued.*

Their Sole Agents for the United Kingdom and the Colonies are John Timpson & Co., Ltd., 104, Golden Lane, London, E.C., to whom all communications should at all times be addressed.

STAND No. 139.

AERATORS LTD., Makers of CO_2 Medical Specialities, Upper Edmonton, London, N.

"Prana" Carbon Dioxide Snow Apparatus, for the rapid and easy production of the new freezing caustic, solid CO_2, for the treatment of Nævi, Lupus, etc.

The Apparatus is made in two sizes, one for Hospitals, Consulting Room, and Surgery use; the other, a portable size, for use in patient's own house.

The cylinder designed for the latter contains just sufficient gas for one stick of convenient size, and can be refilled.

"Prana" CO_2 Sparkling Bath Apparatus, for producing, with the addition of salts, the equivalent of Nauheim, Royat, and other medical carbonated baths for the treatment of Rheumatism, Diabetes, Asthma, and all forms of Heart weakness and disease. A simple and convenient Apparatus that can be used in any bath: no alterations, plumbing, etc., required (see advertisement on p. 211).

STAND No. 142.

SIEMENS BROS. & CO., LTD., Caxton House, Westminster, S.W.

Clinical Temperature Recorder.—This instrument serves for the purpose of recording continuously the temperature of patients, and is an important accessory for diagnosis, for determining the effects of drugs and curative methods, and for special physiological investigations.

A platinum Resistance Thermometer is connected to the recording milli-voltmeter, which is fitted with a scale divided into suitable degrees of temperature. The measurements of temperature can be taken in the usual way at various parts of the

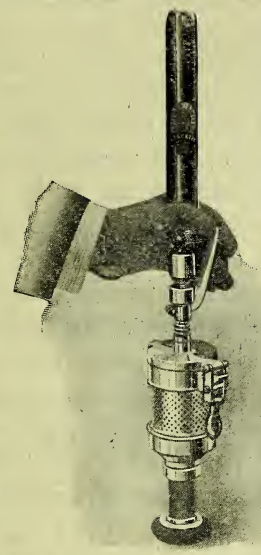
The following Exhibits will be found to be of

SPECIAL INTEREST

The Modern Apparatus

for producing the new Freezing Caustic CO_2.

The "Prana" Carbon Dioxide Snow Apparatus.



For the Modern Treatment of Naevi, Lupus Vulgaris, Lupus Erythematosus, Warts, Moles,

And other Blemishes.

Two sizes:

(1) For hospital use.

(2) For private practice, portable.

(As illustrated).

Carbon Dioxide Snow

has recently been introduced into several of the largest hospitals, and conspicuous success has followed its application to numerous diseases.

Actual Nauheim Treatment at home

by means of the

"Prana" Sparkling CO_2 Bath.

An inspection of the simple and inexpensive apparatus will be most interesting, and will convince you that the **actual effects** of the famous Springs can be **reproduced in your patient's own bathroom** without the time, trouble, and cost of a visit to Nauheim.

Ask for Illustrated Booklet,

or for further particulars write

Sole Manufacturers:

AERATORS, LIMITED,

CO_2 Medical Apparatus Manufacturers,

Upper Edmonton, London, N.

SIEMENS BROS. & CO., LTD.—*Continued.*

body. Records can be taken for many days every 12 minutes, and for special investigations the records may be taken even each quarter of a minute, with a correspondingly higher speed of the recording chart.

Tantalum Dental Instruments.—Tantalum is a rare metal which is somewhat darker than Platinum and extremely hard. Its specific weight is 16·6 and its melting point, in the absence of oxygen, is about 2,300° C. It is particularly suitable for various dental purposes on account of its hardness, its considerable elasticity and its great resistance to chemical reagents. It is not attacked if boiled in hydrochloric acid, sulphuric acid or even aqua regia, nor by alkaline solutions, the only reagent which has any chemical effect on it being hydrofluoric acid. It will stand heating in the air up to 600° C., after which point it gradually becomes consumed. The dental instruments constructed of Tantalum do not rust, and even retain their bright surface in a damp atmosphere; they may be cleaned in acids, sterilised, and boiled in soda water, and, in consequence, have a long life.

Tantalum Instruments and Spatulæ of Tantalum are specially recommended for use with Schönbeck's and other silicate cements. Discoloration of the fillings, as produced by steel and other instruments, is entirely avoided.

The exhibit includes the following:—

One showboard illustrating the progressive stages of the manufacture of the instruments from the ore to the finished article.

Showcase containing 33 instruments of various kinds, *i.e.*:—

1 Spatula and 4 Broaches for Trikresol Treatment.

8 Nerve Channel Drills Nos. 1—8.

4 Separating Discs and 3 Cup-shaped Discs 0·15 mm. thick.

1 Separating Strip 0·15 mm. thick with holder.

6 Injection Tubes of various thicknesses.

4 Miller Needles, 2 being serrated on one side only and 2 serrated all round.

SIEMENS BROS. & CO., LTD.—*Continued.*

EXHIBIT OF RADIUM SALTS, APPLICATORS, AND APPARATUS.

Messrs. Siemens Bros. & Co. have been appointed sole agents by the Banque du Radium for the exclusive sale and loan of radium salts and apparatus in the United Kingdom of Great Britain and Ireland, Channel Islands, the Isle of Man and all British Colonies and Dependencies, with the exception of Canada. The Radium Salts are tested and analysed in the laboratories of Mme. Curie. A written guarantee from these laboratories is supplied with all the Salts of Radium. The exhibit comprises the following:—

Radium Applicators with fixed salts, of various sizes (for skin diseases).

1 Fluorescent Screen.

2 Sets of Nickel Plated Screens 1/10th and 3 mm. thick.

1 set of Dr. Wickham's Radio-uterine Applicators, complete with Screens.

Applicators with free salts, in silver tubes and cases (for diseases of the tissues).

4 Martel Dominici Apparatus. (These Applicators comprise a Dominici Radiferous Tube and a metal screw device for the purpose of introducing and retaining the tube in the tissues.)

Radio-active Apparatus:—

1 Portable Electroscope for examining the radio-activity of minerals and slightly radio-active substances, in comparison with a Standard Disc of Oxide of Uranium.

1 "Radiogene" for preparing radio-active water, etc.

Radio-active Material and Earths (for rheumatism and kindred complaints).—These substances have permanent activity, this virtue being due to the radiations of Actinium. The earths are 50 times stronger than any of the best known natural earths

SIEMENS BROS. & CO., LTD.—*Continued.*

and muds, and may be used in the form of poultices and compresses, or baths. The exhibit comprises the following:—

A supply of radio-active cloths.

A supply of radio-active flannel.

Tins of radio-active earths.

STAND No. 143.

MELLIN'S DIETETIC PREPARATIONS.

Mellin's Food is the well-known cereal extract, obtained by the action of vegetable diastase, which for many years has been successfully applied to the modification of cow's milk for use in infant feeding as well as for adults. Entirely starch free and soluble (*Vide* analyses by Drs. Fresenius, Stützer, Bischoff, etc.), Mellin's Food may be used for infants from birth, and it is of special utility in the dietary of those suffering from dyspepsia and gastric disorders.

Mellin's Lacto is produced from pure fresh milk blended with malted barley and wheat, and the whole is digested until the starchy matters are completely transformed, and the milk casein has been sufficiently modified. The resultant fluid is then evaporated to dryness at a low temperature, and the residual product is Mellin's Lacto. Analysis by the *Lancet*, published 17th November, 1908, gave the following result:—"Moisture, 2·9 per cent.; mineral matter, 4·70 per cent.; proteins, 18·16 per cent.; fat, 14·40 per cent.; and sugar, 59·84 per cent. The proportion of fat and of mineral substances containing phosphates is satisfactory. The preparation is further free from starch."

Mellin's Food Biscuits possess in a remarkable degree the palatability and flavour of the Mellin's Food from which they are manufactured. They are digestive, peptogenic, stimulating gastric secretion, and will be found invaluable for old and young alike. For travellers, professional men, athletes, and all who are called upon to make sustained mental or physical effort, Mellin's Food

MELLIN'S DIETETIC PREPARATIONS—*Continued.*

Biscuits are of the greatest value, since they provide reserve energy at short notice, and furnish the best safeguard against fatigue.

Mellin's Food Chocolate is composed of high-grade cocoa with Mellin's Food, and combines the full rich flavour of the old-fashioned chocolate with the smooth demulcent consistence of the newer milk chocolates. The addition of Mellin's Food overcomes the difficulty of digestion, which in some cases forms an objection against the use of cocoa. The addition of Mellin's Food introduces a large proportion of readily assimilable protein and carbohydrates to the chocolate, and thus tends to balance the ratio of nutritive principles. The use of Mellin's Food to replace cane sugar removes the tendency to produce acidity and dyspepsia, and the resulting chocolate does not cause thirst.

Mellin's Feeding Bottle possesses the following unique advantages :—

1. The graduations are etched upon the outside, consequently the bottle has perfectly a smooth interior wall. Recesses and grooves on the inner surface being thus avoided, there is no danger of the accumulation of particles of souring curd, which defy all efforts to remove them.

2. A special graduation is provided, showing the quantity necessary to form a normal meal, and this furnishes a safeguard against overfeeding.

Mellin's Baby Balance.—Systematic record by means of weighing is now recognised by all authorities as one of the most valuable aids to successful rearing. The relatively high cost of suitable machines, together with the limited period they are required, has hitherto been an effectual barrier to the adoption of this test by parents in moderate circumstances. To meet this want Mellin's Food, Limited, are now providing pharmacists and druggists with a special balance and weights for the purpose of weighing all babies in the neighbourhood. A weight chart is provided, so that permanent records can be made in every case.

STAND No. 144.

THE HYGIENIC COMPANY, LTD., 36, Southwark Bridge Road, London, S.E. Manufacturers of the "Zana" Effervescing Baths.

Telegraphic address: Carlbrook, London. Telephone: 1416 Hop.

"Zana" Effervescing Baths (with Aerating Cushions—Patented). Recognised by leading authorities as the simplest, most convenient and most perfect substitute for the natural carbonated baths, for courses of home treatment. They are quite equal in efficacy to those at Marienbad, Nauheim, Homburg, Kissingen, and similar resorts for treatment of Rheumatism, Sciatica, Gout, Cardiac and Nervous Affections, Female Maladies, Anæmia, and all diseases in which a more active circulation and improved Metabolism is desirable. In cases of slow convalescence from acute diseases, Influenza, and in Debility from any cause, courses of "Zana" Baths are very useful.

"Zana" Effervescing Baths are prepared instantly in any bath, the mode of preparation and employment being extremely simple and safe. On immersion of the two little "Aerating Cushions" (which are enclosed in each "Zana" Bath package) the whole bath-water becomes evenly charged with Carbonic Acid Gas in myriads of minute bubbles, producing a brisk and regular champagne-like effervescence, under complete control, and lasting for fully half-an-hour.

This procedure involves no troublesome dissolving of salts, no mess, no smell, and no injury to ordinary baths and fittings, whilst the water remains clear and bright throughout.

The Price is 2s. 6d. per package, containing the materials for one normal full-strength bath, or two weak baths. A sample bath for trial purposes is supplied free of charge to Medical Men on application.

"Hygol" Bath Essences, for Pine and other Aromatic Baths. Highly concentrated, delightfully fragrant aromatic essences, specially prepared for the bath by an entirely new and patented process. "Hygol" contains the aromatic constituents of selected natural essential oils in a form entirely soluble in water, thus ensuring the full efficacy of their medicinal properties.

THE HYGIENIC COMPANY, LTD.—*Continued.*

Professor Goldscheider, of the Virchow Hospital at Berlin, in a recent article declared such Aromatic Baths to be a valuable psycho-therapeutic remedy in Neurasthenia, Functional Disorders, Exhaustion, Anæmia, and other conditions of reduced vitality. They are wonderfully refreshing and invigorating, and exercise a a most favourable influence on the central nervous system.

"Hygol" Bath Essences, especially the Pine variety, are being used with great success in many Hydropathic Establishments and Health Resorts. Unlike the old-fashioned extracts of Pine, "Hygol" is not greasy and does not discolour the water or the bath. It is supplied in three varieties, Pine Needle, Lavender, and Woodland Flowers. Free trial samples sent on application.

STAND No. 145.

DROITWICH—ENGLAND'S BRINE BATHS SPA.

Position and Climate.—The Topographical position of Droitwich, sheltered as it is from cold winds, and the meteorological conditions met with, render it a very desirable place for the treatment of various maladies. The rainfall is less than in almost any other place in the Midlands—about 19 inches in the year. The soft, mild atmosphere, with more than the average of sunshine, and the comparative absence of mist and fog, render it possible for any invalid to live in comfort.

The Springs.—These underlie the town at a depth of some 200 feet, and provide a constant quantity of brine, as clear as crystal, being about twelve times the strength of the Ocean and constituting the strongest saline waters known, the analysis of which is as under :—

Chloride of Sodium	21,761·872
Chloride of Magnesium	2·560
Sulphate of Lime	91·120
Sulphate of Alumina	14·400
Sulphate of Soda	342·720
Iodide of Sodium	·208
Total salts to an Imperial gallon...	22,212·880

DROITWICH—ENGLAND'S BRINE BATHS SPA—*Continued.*

This analysis shows about 20,000 grains of solid constituents over and above the largest quantity of saline matter contained in each gallon of water from the other mineral springs of Europe.

DISEASES TREATED.—Chronic muscular and articular rheumatism, rheumatoid arthritis, chronic articular or irregular gout, neuritis, neuralgia, heart diseases (especially those of myocardium), neurasthenia, anæmia, chlorosis, some sclerotic diseases of spinal cord, &c.

THE BATHING ESTABLISHMENTS.—The treatment is carried out almost entirely by Balneotherapy, and every care has been taken to provide for the needs and convenience of patients, whilst the brine (the natural temperature of which is 54° F.) is heated to any temperature that may be prescribed. There are two Establishments, "The Royal Baths," opened in the year 1836, and the "St. Andrew's Baths," erected some forty years later. The accommodation includes Private Reclining Baths, Douche, Needle, Vapour, and three magnificent Swimming Baths for ladies and gentlemen, Aix Douche and Nauheim treatment, the whole replete with every comfort, including luxurious reception rooms, dressing rooms, and cooling rooms.

ATTRACTIONS FOR VISITORS.—The surrounding country is abundantly fertile and, amidst hills and dales, is rich in the picturesque scenery, hop yards, orchards, and bright gardens for which Worcestershire is famous.

Droitwich is but a short distance from one of the prettiest spots on the River Severn, whilst the more immediate attractions of the town include a splendidly laid out park, tennis and croquet lawns, music, &c.; concert and reading room, 9-hole golf course, and a daily motor touring car and char-a-banc service during the summer to numerous places of interest, the Shakespeare country, the Cathedral City of Worcester (seven miles distant), &c. For autumn and winter visitors the capital hunting of the district is a great attraction. The roads are excellent for driving, motoring, and cycling.

DROITWICH—ENGLAND'S BRINE BATHS SPA—*Continued.*

WATER SUPPLY.—This is obtained direct from the neighbouring Lickey Hills, and is said to be one of the purest supplies in the whole kingdom.

ACCOMMODATION FOR VISITORS.—There are four principal and excellent modern hotels, and boarding houses and smaller establishments to suit all classes.

Illustrated Guide Book and all particulars will be supplied on application to J. H. Hollyer, 16, Corbett Estate Offices, Droitwich (Manager of Bathing Establishments, &c.).

STAND No. 146.

THE GAS LIGHT AND COKE COMPANY, Horseferry Road, Westminster, S.W.

The special feature of the Gas Light and Coke Company's exhibit is their scheme for the abolition of solid fuel with its dust-producing properties in the household.

The Hot Water is arranged for by one of three systems:—

(*a*) A califont attached to the usual house hot water pipes instantly heats water by the simple action of opening the water tap, the closing of which automatically cuts down the gas.

(*b*) A circulator which takes the place of the kitchen boiler, and is connected to existing circulating system and storage tank, which furnishes a supply of hot water as required.

(*c*) A geyser used for heating water at sink or bath, the water coming from the geyser direct to the bath, etc.

Hot Water at any time, day or night, easily produced by gas, should be at the command of every doctor or nurse.

Cooking—by the practically universal method of a gas stove.

Heating—by Gas Fires. A special feature being cleanliness, simple regulation of heat by a new Air and Gas Regulator, with a minimum of attention required. Everyone in the profession

THE GAS LIGHT AND COKE COMPANY—*Continued.*

should ask to see this, also the new Fuel for Gas Fires. Invaluable in the bedroom, and those fitted with a boiling ring on top, for the nursery.

Gas Fires are largely used by the Medical Profession, and are recommended for the sick room, where evenness of temperature and absence of noise from poking and stoking coal fires is required.

Their use frequently prevents a chill from undressing or dressing in a cold bedroom.

STAND No. 147.

Antiphlogistine

STAND No. 148.

LYXHAYR (British Manufacture Throughout).

The cleanest and healthiest material for bedding and stuffing purposes ever discovered, is free from anthrax or any of the infectious diseases to which Horse, Pig, or Cow Hair, Wool, Flocks, or Feathers are subject.

Mattresses.—This new filling of vegetable origin, sterilised, absolutely clean, durable, and comfortable, is now being adopted by Hospitals, Asylums, Boards of Guardians, Steamship Companies, &c., in place of hair, flocks and other materials of animal origin, because it cannot harbour insect life and has no subsistence for vermin; the WHITE ANT will not touch it. It affords good ventilation and disseminates no dust.

Upholstery.—This is the only material used for stuffing which can withstand the high temperature necessary for complete sterilisation; it is being increasingly used by the leading House Furnishers,

STAND NO. 147.

Antiphlogistine

HYGROSCOPIC
ANTISEPTIC.

Apply hot and thick.

THE DENVER CHEMICAL M'F'G. CO.,
BOW, LONDON, E.

LYXHAYR—*Continued.*

Motor Manufacturers, and Railway Companies throughout the world.

Recommended by the "Lancet," "British Medical Journal," "Hospital," &c., &c.

Obtainable through all the leading houses in the respective trades.

Manufactured at Grove Mills, Mitcham, Surrey.

STAND No. 149.

THE BRITISH LA TOJA COMPANY, 44, Wallwood Road, Leytonstone, London.

La Toja Products.

The springs of La Toja give, out of nature's treasure house, medicinal virtues of the highest order. A combination of all the virtues, *multum in parvo*, of all the European Spas combined.

The temperature of the water varies from 140° Fahr. to normal air temperature.

Analysis of the Waters of La Toja.

	Grains per gallon.
Silica	6·30
Carbonate of Iron	5·42
Carbonate of Lime...	0·89
Calcium Sulphate	6·80
Calcium Chloride	191·50
Magnesium Carbonate	0·42
Magnesium Sulphate	32·10
Sodium Chloride	1648·00
Potassium Chloride	141·70
Lithium Chloride	12·25
Sodium Arseniate	0·08
Ammonium Chloride	2·20
Strontium Sulphate	1·61
Sodium Bromide	5·32

LA TOJA PRODUCTS *(Spanish).*

Registered Trade Mark.

LA TOJA SOAP, which is now strongly recommended by members of the medical profession for Eczema and other skin diseases, is manufactured from the Natural Salts of the Mineral Waters of the wonderful Thermal Springs on the Island of La Toja, Spain.

It is invaluable as an antiseptic for use in hospitals, the operating theatre, etc.

Price **1/-** per tablet.

In addition to the Soap, the Natural products of La Toja are :—

Thermal Mineral Water, Price 1/3 per bottle.
Natural Salts ... Price 3/- and 2/- per keg.
Natural Mud ... ... Price 2/- per bottle.

PROPRIETORS . .

THE BRITISH LA TOJA COMPANY,

44, Wallwood Rd., LEYTONSTONE, LONDON.

Telephone No.: Wanstead 540.

THE BRITISH LA TOJA COMPANY—*Continued.*

The water also contains small quantities of Iodine, Cæsium, and Rubidium, and its medicinal value is no doubt increased by the radium present.

ANALYSIS OF LA TOJA MUD.

Ferrous Oxide	17·50
Alumina	7·70
Lime	2·15
Magnesia	0·40
Carbonic Anhydride	1·45
Arsenical Anhydride	0·64
Silicium	7·60
Magnesium	traces
Insoluble residuum, water and undetermined sundries	62·56
	100·00

La Toja Mud baths are used locally for all kinds of swellings, joint affections, Tuberculous Rheumatism, Osteo-Arthritis, and Gout. They are easily applied in the form of hot, soothing and agreeable poultices.

The Salts, obtained by evaporation *in vacuo*, contain absolutely all the elements of La Toja Waters, and owing to the perfection of the process used in their extraction, and possessing the natural properties of the Springs whence they emanate, their use is recommended to all persons who wish to derive in their own homes the benefits that are obtainable from a sojourn at the watering place where the Salts are extracted.

La Toja Waters are acknowledged by the greatest medical authorities in the world as absolutely unique, and therefore the Salts obtained therefrom are used with marvellous results.

La Toja Soap.—This soap is made with the Salts of the Mineral Waters of La Toja, and therefore possesses all their curative properties in Eczema, and all other skin diseases and forms of irritation, especially when near the external orifices.

THE BRITISH LA TOJA COMPANY—*Continued.*

The Hotel and Bathing Establishment at La Toja, situated in the Arosa Sea, provide for every form of balneotherapy, douche-massage, thermal vapour baths, local vapour baths, local vapour treatment, nasal, aural, and other douches.

The inhalation room is fitted up with the latest atomisers for the Nose, Ears, and Throat, and with different temperatures.

Members of the medical profession are treated liberally and well. A perfect retreat for the weary and exhausted professional man.

A medical handbook to the Baths and Hot Springs, and all information can be obtained from the British La Toja Company, 44, Wallwood Road, Leytonstone, London.

Medical references will be given to those who wish for personal interviews with doctors who are personally acquainted with La Toja.

STAND No. 150.

PRICE'S PATENT CANDLE COMPANY LTD., London, Liverpool, Manchester, and Cape Town, have an interesting and attractive display of some of their products useful to the Medical Profession.

Night Lights.—(1) To burn in glasses, in 5- to 9-hour sizes.

(*a*) New Patent, characterised by the softness of their light, introduced in 1853.

(*b*) Palmitine Star, giving a brilliant light, and specially adapted for use with Food-warmers.

Night Lights.—(2) To burn in a saucer with a little water, 6- to 10-hour sizes.

(*c*) Royal Castle.

(*d*) Improved Childs'.

Introduced in order to utilise the valuable light-giving properties of Paraffin Wax.

These are extensively used, (*d*) being an improved form of the "Childs'" Light, originally introduced in 1849.

PRICE'S PATENT CANDLE COMPANY LTD.—*Continued.*

Calorettes.—To burn in glasses. A substitute for spirit lamps, to keep liquids hot. Safe and effectual for use under tea-pots, tea-kettles, etc.

Price's Glycerin.—Obtained by distillation under their patented processes (Patent No. 301, 1855), has over 50 years' reputation for unsurpassed purity. It is specially recommended for internal use, as an agreeable fat-producing substitute for Cod-liver oil, and also as an innocuous and non-fermentable preservative instead of solutions of sugar.

Has received the highest awards at all the great Exhibitions.

Sanitary Glycerin Soaps, including the following:—Carbolic, Coal Tar, Eucalyptus, Thymol, Salicylic.

Toilet Soaps.—The following are a few of the Company's well-known and much appreciated varieties:—Lemon Juice, Oatmeal and Glycerin, Regina Cream, Regina Violet, Glycerin Cream, Palmitine Bath.

All are distinguished by their freedom from uncombined alkali and other irritating impurities, by the rich creamy lather which they yield in washing, and by their delicate perfume. Their "Solidified Glycerine" contains 50 per cent. of Price's Glycerin.

Paraffinum Molle, B.P.—A pure petroleum jelly, yellow and white.

Paraffin Ointment (Unguentum Paraffini, B.P.).—White and Yellow.

Price's Scented Ceratine.—A valuable preparation for the skin and general toilet purposes, aseptic and non-oxidising, yellow and white.

Carriage Candles.—For burning in spring lamps. These are made in great variety. The following are some of the best qualities:—Best Paraffin (transparent), Ceylon Wax (yellow opaque), Belmont Sperm (white opaque).

Parastrine Shade Candles, S.F.—This is a most attractive looking candle, specially suited for burning with shade-holders, giving a bright light.

PRICE'S PATENT CANDLE COMPANY LTD.—*Continued.*

Motorine.—A compound oil of superior character, produced on the lines of the Company's well-known Gas Engine Oil, and offered in three grades.

STAND No. 151.

CLAY, PAGET & CO., LTD., 71, Ebury Street, Eaton Square, London, S.W.

Paget's Bulgarian Sour Milk "Uga," prepared from the Bacillus of Massol.

Paget's Modified Milk for infant feeding.

Paget's Sugar-free Milk (Diabetic Milk).

Paget's "Uga" Cream Cheese.

The Veronelle Apparatus for the preparation of Sour Milk at home.

STAND No. 155.

THE MIOL MANUFACTURING COMPANY, LTD., 82, Southwark Bridge Road, S.E.

Miol is a highly concentrated medical food having distinct advantages over any other kind of food composition, inasmuch as it contains the best heat, force and plastic forming bodies, together with concentrated Oxygen.

Miol is composed of Maltose, Diastase, with finest Cream Olive Oil, the best known heat and force producers, far superior to animal or fish fat. Iodine in organic combination is present as Oleate of Iodine and Albumose Iodide. In this form the Iodine is not acted upon by the gastric juices, but is absorbed by the lacteals of the intestines, thus giving buoyancy to the system, never depression. Glycerophastes are the best brain and bone formers known to science.

Albuminous substances are used, giving directly to the body Nitrogen, out of which muscles are built and the waste is repaired.

Cinnamin is used, which not only gives Miol a pleasant flavour, but adds to the whole as a germ destroyer.

THE MIOL MANUFACTURING COMPANY, LTD.—*Continued.*

Miol is used largely in Sanatoria, with marked success, the patients quickly gaining weight and strength. So rapid has been the improvement that Medical Superintendents write us quite astonished. The reason is that Miol is highly concentrated and entirely absorbed, whereas fish and other oils and fats are only partially absorbed, the rest passing through the rectum.

Miol is absorbed all along the intestinal tract, giving vitality to the system, strength and tone to the intestines. It is impossible for the patient who takes Miol to suffer from constipation. Miol can be administered, with milk, for babies from one month old. It is usually taken in a teaspoon or on bread and butter.

M. Carrington Sykes, M.D., F.R.C.S.E., D.P.H., F.C.S., states that Miol is *multum in parvo*, Science combining with Nature, one of the greatest body repairers built up by chemical science.

Samples, Literature, and Clinical Reports will be sent to any member of the Profession.

STAND No. 156.

MRS. F. MARSH, Overshot Mill, Colne Engaine, Essex. Telegrams: Marsh, Earls Colne.

Yaourte is the Turkish name for a special kind of sour milk which is commonly eaten throughout the Levant. It is known in Egypt under the Arab name of Leben.

Its alimentary and dietetic properties have been appreciated for centuries in the East, and are now investigated with keen interest by the medical profession in France, Germany, and England.

Its bacteriological and chemical composition was studied for the first time in 1901 by Dr. Rist (see the Annals of the Pasteur Institute in Paris).

He has shown that the fermentation which turns pure scalded milk into Yaourte is due to the combined action of five different kinds of micro-organisms, viz. :—

1. A lactic acid producing bacillus (*Streptobacillus Lebenis*).
2. A lactic acid producing coccus (*Streptococcus Lebenis*).

MRS. F. MARSH—*Continued.*

3 and 4. Two kinds of alcohol producing yeasts (*Saccharomyces Lebenis* and *Mycoderma Lebenis*).

5. A minute bacillus (*Bacillus Lebenis*) whose part in the fermentation process is not very clear.

The two first-named microbes also produce a milk coagulating ferment which is akin to the lab-ferment normally present in the human stomach.

The two yeasts produce, besides a very small quantity of alcohol, some aromatic compounds, which give the Yaourte its delicious and original taste and flavour.

All these microbes are perfectly harmless, and their action on the milk is the same as the action of our normal digestive organs.

Professor Metchnikoff has proved that *Streptobacillus Lebenis* is one of the most powerful lactic acid producing bacteria which exist.

Yaourte is prepared fresh daily from the above-named five micro-organisms supplied direct from Paris, by Mrs. Francis Marsh, Overshot Mill, Colne Engaine, Essex.

The milk used in the preparation is from her own cows (certified non-tuberculous) and the whole process is under persona supervision.

It is supplied in 1 lb. patent screw-topped airtight jars, suitably packed for parcels post, at 1*s.* 6*d.* per jar (inclusive of packing and postage).

In cases of one dozen by rail, carriage paid, 12*s.* per case.

In cases of six by rail, carriage paid, 7*s.* per case.

2*d.* per jar allowed for empties when returned carriage paid to White Colne Station with sender's name on package.

STAND No. 157.

A. WANDER, LTD., 1 and 3, Leonard Street, City Road, London, E.C.

"Ovaltine."—A peculiar and intimate combination of Malt Extract, Milk, Eggs and Cocoa, in the form of a dry granular powder, which readily dissolves in hot milk or water, yielding an exceedingly palatable beverage. A special claim is made for this preparation that, in addition to its inherent nutritive properties, the Lecithin of the egg yolk and the Diastase of the malt extract have been successfully retained in an unaltered active state in the finished product, giving it valuable therapeutic properties.

Dry (Crystalline) Malt Extract (Wander).—As its name implies this is a crystalline form of Malt Extract, which retains all the therapeutic and nutritive value of the usual extracts. It is palatable, convenient to handle or to administer. Its crystalline form ensures that it is definite in concentration, permanent in character and free from admixture.

"Formitrol" Pastilles.—Perfectly safe and effectual method of administering Formaldehyde internally. The Pastilles are hard in substance and strong in Formaldehyde, which ensures a powerful and sustained bactericidal action on the throat and mouth surface.

STAND No. 158.

EVANS SONS, LESCHER, & WEBB, LTD., 60, Bartholomew Close, London, E.C.

"Curdlettes."—Under this name is introduced a product of Lactic Acid Bacilli, recommended as an efficient method of taking the "Sour Milk Cure."

The bacterial powder from which these tablets are made is prepared under the superintendence of H. E. Annett, M.D., D.P.H., Professor of Comparative Pathology, The University, Liverpool.

EVANS SONS, LESCHER, & WEBB, LTD.—*Continued.*

"Membroids" (Drugs in Membrane).—A simple mechanical process for passing Drugs through the stomach undissolved into the intestines, where solution and absorption take place.

Drugs put up in Membroid form are:—Aspirin, Creosote, Guaiacol, Ipecacuanha, Male Fern, Salol, Santal Salol, Santal, Santol Salol, and Meth. Blue, Quinine, Mergal, and Santal and Meth. Blue.

Algiron.—This is a preparation of iron, which gives most excellent results in the treatment of Anæmia and Chlorosis. It passes through the stomach unchanged, and does not disturb the digestion. It has no astringent effect, and does not cause constipation, its effect being slightly laxative. It is readily absorbed into the system, as shown by the increase in red blood corpuscles.

Dry Filled Capsules.—A simple and practical method of administering powders. This form of medication is largely used in Anæmia.

Savaresse's Capsules of Ol. Santal. Flav.—Owing to the envelope of animal membrane, the drug is not liberated into the stomach, and thus the usual nausea and repeating is avoided.

Purgoids.—Under this name Messrs. Evans Sons, Lescher, and Webb, Ltd., have introduced a new laxative containing Phenolphthalein, combined with Aloin, Ipecac., and Extract of Belladon. This form gives excellent results in cases of chronic constipation.

Thymeucal.—A reliable deodorant and antiseptic for internal and external use.

Thyroglandin.—A preparation of the Thyroid Gland.

Formalets (Throat Tablets).—An antiseptic germicide containing Paraform.

Samples and literature of the above will be sent free on application.

ELECTRICAL APPARATUS SECTION.

(JEHANGHIER HALL.)

STAND No. 1.

(*Also exhibiting on Stand No.* 16.)

THE SANITAS ELECTRICAL COMPANY, LTD., Offices and Demonstration Rooms, 61, New Cavendish Street, London, W. Works: Bentinck Mews, W. Telegrams: Lumignons, London. Telephone: 4971 Paddington.

The above Company, who specialise entirely in the manufacture of X-ray and all Electro-therapeutic and allied apparatus, are making a most comprehensive exhibit of all the latest approved appliances, in keeping with the remarkable recent developments in this science. Every description of apparatus will be demonstrated in actual working order by expert representatives, and the fullest information will be gladly given to anyone interested. The various apparatus have now been brought to such perfection and are so simple in regard to construction and manipulation that they appeal equally to the expert and to the beginner, the latter of whom will find no difficulty in thoroughly mastering the different treatments and obtaining successful results. Most thorough explanatory demonstrations are given at our show-rooms at any time to anyone interested on presentation of card.

Briefly, the various appliances exhibited are as follows:—

"Sanax" Intensified Spark Coil.—A new range of coils of the very highest efficiency and capable of giving the most intense discharges; designed expressly to meet the modern demand of short-exposure radiography. With variable primary coils for working with electrolytic interrupters or with mercury and electrolytic interrupters alternately.

THE SANITAS ELECTRICAL COMPANY, LTD.—*Continued.*

"Sanax" Motor Mercury Interrupter.—This interrupter differs from all other mercury interrupters, and marks a real advancement in X-ray technique, introducing, as it does, an entirely new working principle. There are no pumps, no jets, no dippers, no hammers, no magnets, no paddles, only a revolving segmented disc rotated by a centrifugally driven ring of mercury. Independent motor drive, providing from 200 to 10,000 interruptions per minute.

Combines the rapidity of the Wehnelt (without its enormous reverse current and other drawbacks) with the efficiency of the mercury interrupter, a remarkable combination never before obtained. It produces the most intense discharges for rapid radiography. Provides a brilliant and perfectly steady light for screen work and is under perfect control for therapeutic treatment. No muddying of mercury for a year or longer, and therefore its remarkable efficiency is constant. In use in all the large Hospitals throughout the country and by all leading X-ray workers.

"Sanax" X-ray Outfits. Instantaneous Radiography.—Instantaneous, radiography with a mercury interrupter is now being accomplished in 1/100th of a second for the first time in history. This is only possible with the new "Sanax" Intensified Spark Coil and the "Sanax" Motor Mercury Interrupter. The coil is specially constructed to work in conjunction with the "Sanax" Interrupter to provide the very highest efficiency; to work with a very low primary consumption and to produce the most intense discharges and free from reverse current. At the same time the outfit is equally perfect for ordinary time exposures. Provides an intensely brilliant light in the focus tube for screen examinations without a flicker; perfect control in all respects for therapeutic treatment.

The iron core of the primary is made small in order that it shall attain its maximum degree of saturation of magnetism and lose same with great rapidity corresponding to that of the interrupter. This and all other factors, such as the size and length of the primary and secondary windings, the capacity of the condenser,

THE SANITAS ELECTRICAL COMPANY, LTD.—*Continued.*

the voltage of the main supply, etc., are all duly taken into consideration, and only by such means, ensuring perfect harmony between one appliance and another, can the highest efficiency be rendered possible. We claim that the "Sanax" Coil and "Sanax" Interrupter working together constitute the highest development of the science.

"Sanax" Universal Protecting Box.—This protecting box is mounted on a massive floor stand on castors, adjustable to any position. It is made to carry iris and square diaphragms, lead glass tubes for therapeutic treatment, cylinders for compression and a special plate holder for skull radiographs. It can be used either above or beneath the couch. It is of universal utility, equally efficient for radiography, examination, treatment, and compression.

X-ray Switchboards.—Switchboards are made to any specification, either for mounting on the wall, in cabinets or on trolleys. For working Coil with "Sanax" Interrupter, electrolytic interrupters or both. They can also be combined with apparatus for Cautery, Light, Galvanisation, etc., as desired.

X-ray Couches.—These are manufactured in various forms. The latest model exhibited will be found most convenient and efficient and at a moderate cost. Fitted with protective tube box with iris or other diaphragm. With all movements and with localising apparatus.

New Intensifying Screen.—Our new intensifying screen, after Geler, is a new and important introduction for lightning exposures. It reduces the times of exposure to the absolute minimum without detracting from the sharpness of definition. This screen must not be considered as bearing any relation to the old intensifying screens which reduced the exposures but little and even then at the expense of "grain." It is destined to play a very important part in modern instantaneous radiography.

X-ray Accessories.—Focus Tubes of all the latest patterns. Protective aprons, gloves, masks, and goggles. Also various large and small protective screens and similar devices. Radio-chromometers, Milliampèremeters, Fluorescent Screens, Tube Stands and every description of apparatus complete the X-ray exhibit.

THE SANITAS ELECTRICAL COMPANY, LTD.—*Continued.*

High Frequency Apparatus.—Latest patterns of High Frequency Transformers for working with the X-ray apparatus, complete with every description of electrodes and accessories.

Earthfree "Multostat" Universal Apparatus.—The "Multostat" is a universal apparatus for general electro-therapeutics. This one small compact instrument provides Galvanic current (Electrolysis, Ionic Medication), Sinusoidal-Faradic current, Galvano-Sinusoidal current, Cautery and Light, while the motor is designed to work surgical drills, vibrators, pneumatic massage pumps, centrifuges, fans, polishing and sharpening wheels, and, last but not least, a special interrupting device for interrupting the Galvanic current which it itself provides. This is a most simple method of obtaining an Intermittent Galvanic current after Prof. Leduc.

In the latest pattern machine the motor is not merely a motor transformer, as with other makes, but is in reality a motor generator. This means that the Dynamo portion generates its own current, and thus all currents used in treating the patient are totally independent of the main, the main current only being utilised to run the motor portion. By this ingenious arrangement all possibility of earth shocks is entirely obviated, and hence its name Earthfree Multostat.

The machine is fitted with our new precision turning rheostats, and all fitments are of the highest class throughout. It is complete with dead-beat Milliammeter, Pole Reverser, Watteville key, etc. All mechanism is enclosed in the enamelled iron base, free from dust and damage. For full details, see our special "Book of the Multostat," which illustrates and describes the machine in detail, together with references to the various accessories and the treatments that can be carried out with same.

Schnée Four-cell Bath.—The only true method of administering electric currents to the body. Possesses many and important advantages over all other methods. For full particulars, with much interesting reading matter, we beg to refer anyone to pp. 154 to 190 of our general catalogue. In conjunction with our "Multostat"

THE SANITAS ELECTRICAL COMPANY, LTD.—*Continued.*

apparatus the Schnée Four-cell Bath constitutes the ideal outfit for general electro-therapeutics at very moderate cost.

The exhibit is completed by specimens of the following appliances:—Light and Radiant Heat Baths, Hot Air Baths, etc., full body and local. Hydro-therapeutic apparatus, Ozone apparatus, Inhalation apparatus, Physical Exercise apparatus, Hot Air Douches, etc. Also Vibrators, Pneumatic Massage Pumps, Switchboards, Motor Transformers, Batteries, Latest Surgical Lamps, Accumulators and all apparatus and accessories for Galvanisation, Faradisation, Ionic Medication, Cautery, Light, and all other approved electro-therapeutic treatments.

STAND No. 2.

F. DAVIDSON & CO., Manufacturers of Optical and Electrical Specialities, 29, Great Portland Street, London, W.

The Thermo Generator. A commercial adaptation of the Thermo-Pile, which supplies means for illumination of surgical lamps, for light cautery, epilation, and Faradisation. Doing away, as it does, with dry batteries, it is an ideal appliance, especially in places where electricity is not available.

New High Frequency Apparatus. Comprising transformer, with spark gap induction coil and battery of accumulators, mounted on handsome mahogany table on castors, with drawer for electrodes. With this unique appliance, the administration of the high-frequency current may be given either by auto-condensation, the effluve, or direct method. It is efficient, it is cheap, requires little attention, and takes up little room. Price, complete, £25.

Davidson's Patent Electric Ophthalmoscope.—The simplest one made and the easiest to use. Both direct and indirect examination can be done, and also retinoscopy with either a plane or concave mirror. Price £3 3s. This appliance is contained in the

No. 54 Outfit.—This is unique. In a mahogany box are appliances for eye, ear, nose, and throat work, transillumination, and cautery. Price, complete, £8 8s.

F. DAVIDSON & CO.—*Continued.*

Davidson's Urethroscope.—Adapted from Bruning's Bronchoscope. In the words of an eminent surgeon, "It is the best I have seen."

Davidson's Cystoscope.—After Mr. Hurry Fenwick. Equally efficient for the anterior examination, but lower in price than any other. £4 4s. Made with 4-volt metallic filament lamps.

Bruning's Bronchoscope, with all etceteras.

Sigmoidoscope.—"Strauss," with 4-volt metallic filament lamp.

Davidson's Patent "Simplex" Adaptor for reducing the voltage of the house current for the illumination of small lamps. 50s.

Special Portable Type of Adaptor.—Can be carried in the pocket. 50s.

Cautery and Light Set No. 19A.—In every sense reliable. £6 10s.

Constant Current and Universal Batteries.

Cautery from dry batteries.

The "Davon" (Reg.) Dry Battery.—The only one made by means of which light cautery can be done in addition to illumination, and the only one made which will not deteriorate materially if not used for lighting for some time. 5s.

The Pharyngoscope.—Giving a beautiful view (not inverted) of the vocal chords, epiglottis, larynx, Eustachian passages, naso-pharynx, etc. Complete, in case, with "Davon" Battery, £5 5s.

With but slight exceptions, all the above are made by F. Davidson & Co.

STAND No. 4.

LONGSTRETH'S, LTD., 190, Queen's Road, Battersea, London, S.W.

Lithanode Specialities.

Medical Cautery sets.

Medical Lighting sets.

Medical Combination sets for both Cautery and Lighting purposes.

LONGSTRETH'S, LTD.—*Continued.*

Medical Hand Lamps of various types.

Charging Indicators.

Automatic Charging cut-outs.

Portable and Cable type Accumulators for Röntgen Ray work and general Scientific purposes.

Lighting and Charging cells.

STAND No. 5.

K. SCHALL & SON, 75, New Cavendish Street, London, W.

Complete set of X-ray Apparatus.—Coil, with centrifugal mercury interrupter, producing a heavy discharge, with arrangement to measure it.

New Accelerating Screens, free from grain, and reducing the exposure to one-tenth or one-twentieth of the time which would be required without a screen.

Slide Rules, for finding correct time for X-ray exposures.

New Tube Stands, with boxes to enclose tubes for protection of operator and patient, diaphragms, pastille holders, and arrangement for making stereoscopic exposures.

Dr. Ironside Bruce's Couch.

Coil and Interrupter to obtain negative of the heart of an adult with one single flash.

A High Tension Transformer, without interrupter, with synchronous reverser.

A selection of X-ray Tubes, negatives and diapositives.

A new High Frequency Apparatus (Thermo penetration), for raising the internal temperature of the human body, for the treatment of rheumatic and gouty cases, and for using the "cold cautery."

Pantostats, *i.e.*, universal apparatus for using the current from the mains for Cautery, Surgical Lamps, Galvanisation and Electrolysis, Faradisation, for Massage and Rapid Vibration, Air Pumps and Surgical Operations with Drills and Saws.

K. SCHALL & SON—*Continued.*

Leduc's Interrupter, and Dr. Lewis Jones's Rhythmical Interrupter.

A new Pharyngoscope, equally convenient for examining larynx and pharynx.

A new Instrument for sterilising wounds with vapours of Iodine.

Cystoscopes, with greatly improved optical part.

Urethroscopes, Head Lamps, and a large selection of Surgical Lamps.

Mercury Vapour Lamps, for treating skin diseases. Haab's Magnet.

Motors for Massage.

A large selection of Faradic and Galvanic Batteries, Electrodes, etc.

STAND No. 6.

THE DOWSING RADIANT HEAT CO., LTD. Registered Office: 24, Budge Row, Cannon Street, London, E.C. Medical Establishments: 28, York Place, Baker Street, London, W.; 6, Poole Road, Bournemouth; 5, Oxford Row, Bath.

and Licensees at—

Aberystwyth, Acton, Bexhill, Belfast, Birmingham, Bromley, Buxton, Barmouth, Bradford, Blackheath, Blackpool, Bournemouth, Cambridge, Cork, Cheltenham, Dublin, Edinburgh, Exeter, Eastbourne, Exmouth, Ealing, Fulham, Glasgow, Harrogate, Hastings, Hindhead, Ilford, Leamington, Llandrindod Wells, Manchester, Margate, Matlock, Malvern, Nottingham, Norwood, Oxford, Plymouth, Peebles, Ryde, Sheffield, Scarborough, Southport, Shanklin, Southsea, Strathpeffer, Southampton, Streatham, Tunbridge Wells, Ventnor, Woodhall Spa, Worthing, Wimbledon, Weston-super-Mare, and at Hospitals and Infirmaries in London, Manchester, etc.

The Dowsing Radiant Heat and Light Treatment is shown in its various applications, both for full body, or local treatments.

The new type of Radiant Heat Bed is exhibited, in which great improvements are to be seen. The bed is of a more substantial character, more conveniently fitted and worked, and it is higher,

THE DOWSING RADIANT HEAT CO., LTD.—*Continued.*

for ease in giving massage after treatment. The controlling apparatus is fixed to the head of the bed, and the electrical connections radiate therefrom. Asbestos-lined covers are made in different forms, for ease of manipulation.

Special Local Appliances are shown, and attention is drawn particularly to the Shoulder Apparatus for giving the Dowsing Radiant Heat Treatment. The reflectors are specially shaped, and the lamps so placed that the full force of the luminous heat rays can be obtained on the parts affected.

Special appliances are also made for treating limbs, and are particularly applicable for stiff and painful joints.

The Dowsing Radiant Heat and Light Treatment has been very successful in treating many thousands of cases in Europe, and it is now prescribed by the chief members of the medical profession in all parts of the world. This was the first system in which direct Luminous Heat Rays were utilised for medical treatments, and its success has been phenomenal.

Medical Appliances, whether for the full body treatment or local application, are supplied for use under doctor's orders, to Hospitals, Nursing Homes, and other Institutions, and the Company undertake the cost of upkeep, thus relieving the user from all trouble in this respect. Terms and other particulars on application.

Dr. Scholder's Arthromotor, as shown, is used extensively on the Continent for treating stiff or injured limbs by means of active and passive movements.

Electric Vibrators and other Medical and Electrical appliances are also shown.

STAND No. 7.

F. R. BUTT & CO., 11, Denmark Street, Charing Cross Road, W.C. Telephone No.: Gerrard 1135.

Universal Interruptor (patent applied for).

Distinctive features: Grouping of blades in parallel. Indestructible Metal Diaphragm. All splashing of Mercury eliminated.

Stand No. 7 (Electrical Section). ***Telephone—1135 Gerrard.***

F. R. BUTT & Co.,

II, DENMARK ST., CHARING CROSS ROAD.

UNIVERSAL INTERRUPTOR.

No noise, no smell, no motor. Starts on switch. No upkeep expenses. Patent applied for.

INDUCTION COILS.

Patent, No. 19885 and 19886.

ALTERNATING OUTFITS.

Results for screening therapeutic work and rapid radiography guaranteed equal to any continuous current outfit.

SPECIAL ACCESSORIES.

Stands, Couches, etc., for Stereoscopic and Compression work as fitted by us in London Hospitals (prices and full particulars on application).

Apparatus BRITISH made throughout.

F. R. BUTT & CO.—*Continued.*

Improved Auto Magnetic rotating device. True rotating magnetic field produced.

Advantages: Break automatically started on Switch. Will work off any voltage or supply. Rate of Interruptions varied from 5,000 down to 200 or 300 per minute. Speed independent of amperage passing through coil. Equally efficient for Screening, Therapeutic work, or Rapid Radiography. Automatic lubrication, no leakage of Gas, no noise, no Motor, no Brush Gear, not dependent on faulty connection between a rotating spindle and its bearing, yet possessing perfect electrical contact throughout, combined with absolute freedom of rotation, and a gas-tight bearing at the ordinary pressure of the gas mains.

Heavy Discharge Coil (Patent No. 19885 and 19886).

Unique hollow laminated core. Eddy Currents eliminated. Rapid magnetisation and demagnetisation, giving remarkable efficiency at rapid rates of interruptions.

F. R. BUTT & CO.—*Continued.*

X-Ray Couch. New rigid substitute for the usual canvas cover, enabling perfect compression to be obtained.

Radiographic and Compression Apparatus made to the design of Mr. Archibald Reid, of King's College Hospital.

STAND No. 8.

ALFRED E. DEAN, 82, Hatton Garden, London, E.C.

A complete up-to-date equipment for Radio-Diagnosis, the special feature of which will be the perfect protection it affords. It must be mentioned that we are the pioneers of X-Ray Protection, having published a Catalogue of Protective Devices as far back as 1902.

The Group will consist of a replica of those in use in London Hospital (2 Departments), Birmingham General Hospital, Stockport Infirmary, Royal Naval Hospital, Plymouth; Royal Naval Hospital, Haslar; Hôpital St. Jean and Hôpital St. Pierre, Bruxelles; Hôpital St. Elisabeth, Antwerp; Sydney General Hospital.

Having in view the needs of protection, the apparatus differs in design from the orthodox Models, and sometimes has to be designed to suit the shape and size of the Department receiving it.

The principal item is the Dean Diascope, designed by our Principal with the collaboration of some of the leading Radiologists. The Apparatus is specially designed for use in Radioscopic Examinations of a Bismuth Meal.

The whole control is centred on the front of the large metal shield which completely protects the operators, the screen itself being covered with a sheet of lead glass 5–6 mm. thick.

The movements of the tube, permitting of complete exploration, are such that the X-ray emanation cannot fall outside the Metal Screen. The tube moves from side to side and upwards and downwards—the tube is surrounded with a heavy lead glass shield, and supported by Self-centering Tube Holders. The front of the

ALFRED E. DEAN—*Continued.*

Shield has a quick-acting square diaphragm of new design permitting a square or oblong area of any dimensions. A suspected area is thus made sharper by a reduction of the illuminated area on the screen.

A special feature is the revolving stool.

The Coil is located on the top of the steel framework, as is also the Spinctermeter.

The Coil is a standard 40 cm. with compound windings.

The Switchtable is provided with the usual Measuring Instruments and Control Gear, for Radioscopy and for Rapid Radiography.

The special feature is a new Induction Controller, which changes the induction of the primary to suit the secondary output.

The Switchtable, a copy of the one in use at the General Hospital, Birmingham, is constructed to deal with an E.M.F. of 250 volts, which is devolted to any desired pressure, and supplies a current to 60 ampères. It operates a 3-Pole Wehnelt Interrupter, which is extremely flexible; it is further provided with a Change-over Switch and Mercury Jet Interrupter.

Both Electrolytic and Mercury Interrupters will be on view.

The Group further includes a Steel Couch for Exploration, Compression and Stereoscopy, made to the suggestions of Dr. Gilbert Scott.

The underneath tube is provided with a special Tube Box and Tube Holder, and includes a square Diaphragm.

A special feature is the minimum of Damping caused by this new form of Protective Box. Another feature is that the movement of the Box in any direction is imparted by the operator's foot.

The Compressor is of special design, enabling any size and shape tube to be inserted, whilst ensuring all the advantages of the Schoneberg Compressors.

The top portion of the couch is constructed for general work with the protection ensured by a heavy glass shield.

ALFRED E. DEAN—*Continued.*

The Group is completed by special 2-Negative Viewers, one designed by Dr. Hall-Edwards, of Birmingham, and the other by Dr. Scott, of London.

There will be on show the well-known "Climax Treatment Stand," with pastille Holder, which is in use in every Continental Country.

We make a special feature of X-Ray tubes of our manufacture, for Treatment and Diagnosis, which support heavy discharges for long periods.

We further exhibit the Leucodescent Lamp, which is a source of Infra-red Rays, and which is now so well known as not to need description.

It might be noted that we are the only British firm producing the whole plant from Coils to Tubes in our own London Works, and that most of the important British Installations have been entrusted to us.

STAND No. 9.

MEDICAL SUPPLY ASSOCIATION, 228/230, Gray's Inn Road, London, W.C.

1. New Installation for Rapid Radiography and Therapy, consisting of—

   (*a*) The Gaiffe Rochefort Coil.—This differs from other coils in being free from wax insulation. It is practically free from all risk of breakdown under the severest electrical strain, and is much cheaper than any other coil of corresponding output.

   (*b*) The Greville Gaiffe Mercury Jet Break for Intensive and for Normal Radiography and for Radiotherapy.—Radiographs taken with this apparatus on show.

   (*c*) New X-Ray Tube for Rapid Radiography.

MEDICAL SUPPLY ASSOCIATION—*Continued.*

2. New Installation for Radiotherapy and Radiography.—This installation is specially designed for X-Ray Therapy, and is already used by many doctors and institutions.
3. The "Grevillite" Universal Tube-stand (for Radiography and Radiotherapy), designed by the Medical Supply Association at the suggestion of Dr. Melville.—This combines ease of movement for working above or below a table, or for the horizontal position. The tube-holder takes the largest size tubes and gives perfect protection to the operator. Compression is easily obtained, as is Stereoscopic Radiography.
4. The "Grevillite" Therapeutic Tube-stand for Radiotherapy.—This affords perfect protection, and is specially designed for the requirements of X-Ray Treatment.
5. Latest types of X-Ray tubes for Radiography, Radioscopy, and Radiotherapy.
6. Ideal Safety Rheophores.—No danger of leakage to patient.
7. Latest types of Faradic Battery.—Recommended by Dr. Curtis Webb to the Incorporated Society of Masseuses.
8. Dr. Curtis Webb's Intra-Uterine Electrodes for Ionization.
9. Latest type of Intensifying Screen (The "Simplicito"), for reducing the time of Radiographic Exposures to the minimum.
10. Latest apparatus for skin treatment by means of Solid Carbonic Acid.
11. The "Therap" X-Ray tube for X-Ray treatment. This tube, which costs 33s., will stand 2 milliampères for hours without lowering in vacuum.
12. Universal apparatus for obtaining Cautery and Light, Galvanism, Faradism, and Sinusoidal Currents, &c., direct from the electric light main, either from Continuous or Alternating current.

    This apparatus is entirely free from earth, and there is not the slightest risk of injury to the patient.

    This apparatus has been devised to our own specification, and has been the result of careful study of several machines of this type.

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W. WATSON and SONS, LTD., 313, High Holborn, W.C., Electricians to His Majesty's Government.

Up-to-date X-Ray Equipments and other Electro-Medical Appliances for Hospitals and Practitioners.

The following recent introductions are being shown by the above firm:—

Sunic Intensifier Screens for X-Ray work, reducing the exposures required under normal circumstances to about one-twentieth, with practically an entire absence of grain.

Pirie's Stereoscope.—A simple form of Stereoscope arranged by Dr. Howard Pirie for the examination of X-Ray negatives. The special features are lightness, compactness, and the ease with which even those who are not accustomed to inspecting Stereoscopic X-Ray negatives can see them stereoscopically with this instrument.

Middlesex Orthodiagraph and Tube Holder.—A combined instrument for Orthodiagraphic work, exploration with tube below couch, radiography above and below couch, stereoscopic work, etc. An exceedingly simple apparatus designed for the above purposes by Dr. C. R. C. Lyster.

New Sunic Tube Stand.—This is one of the most elaborate and, at the same time, easily manipulated combined X-Ray Tube Holder and Protection devices that have hitherto been designed. All the movements are controlled from one point, the motion being transmitted to the various rack and pinion and other motions by flexible cables.

Watson's Intensified Induction Coil and New Pattern Moto-Magnetic Interrupter, for Heavy Currents, as in use at the principal Hospitals throughout the country.

STAND No. 13.

SIEMENS BROS. & CO., LTD., Caxton House, Westminster, S.W.

The "G.P." X-Ray Outfit.—This Outfit has been designed specially for the use of the general practitioner. It consists of the following apparatus :—

16-inch Spark Induction Coil, with three-part primary winding and spark gauge.

Small Switch-Table complete with ammeter, rheostat with 15 contacts, two three-way switches for the Wehnelt Interrupter and primary windings respectively, and one main lever switch.

Tube Stand, Heavy Anti-Cathode Tube, Milliammeter, Fluorescent Screen, High Tension Cables and other Leads.

All the apparatus are rigidly fixed to this screen. When the outfit is used for instantaneous radiography, the shunt resistance is cut out, and very short exposures can then be obtained by means of the main switch.

X-Ray Outfit with Rotating High-Tension Rectifier (new and improved pattern), for connecting to 220-Volt Continuous Current Mains.—This Outfit has been designed with the object of generating X-Rays without inverse radiation, whilst at the same time it is suitable for instantaneous radiography without the addition of any auxiliary apparatus. Induction Coils and Interrupters are dispensed with altogether, and large outputs can be obtained without any undue strain on the apparatus or inconvenience, as in the case of an Induction Coil Outfit with an Interrupter. The apparatus on exhibit comprises the following parts :—

Continuous-current-to-alternating-current Converter, mounted on solid wooden table, with special transformer below, and rectifier in special wooden case, on which are mounted the terminals for the leads from the tube, and a milliampèremeter for indicating the current that flows through the tube. The whole enclosed in a wooden cabinet.

SIEMENS BROS. & CO., LTD.—*Continued.*

A Switch-Table, fitted with: Main Switch; Starter with automatic over-load release and automatic no-volt and no-current replacement; Switch for Transformer and Commutator; Ammeter for main current; Voltmeter for supply pressure; and Lamp, with fuses, for illuminating the instrument.

Also Lever Switch for six-part primary winding of Transformer, for adjusting the secondary potential; and Rheostat for fine regulation.

Diathermy Apparatus.—This Apparatus is for the application of heat at any desired depth in the body; it involves a new electrical curative treatment known as "Diathermy" or "Thermo-Penetration." The principle of the apparatus is that of a small wireless transmitter station, but with the difference that the high-frequency alternating current serves only to heat its path through the human body. Medical applications are divided into two main groups:—

1. The heating treatment, which gives rapid and beneficial results for complaints of the nerves and limbs, such as Ischias, Rheumatism, and Gout, etc.
2. The coagulation treatment, which is applied to tumours and cancers, and is particularly successful for lupus, giving much more rapid cures than the Finsen treatment.

The apparatus consists of a Transformer, which is connected direct to the alternating current electric light mains, and, when continuous current only is available, of a small rotary converter in addition. The secondary current from the transformer charges the condenser of an oscillatory circuit until the discharging spark jumps across the spark gap. The oscillations from the condenser are passed through the primary windings of a Tesla Transformer, and those induced in the secondary windings are transmitted into the body.

The Universal Electro-Medical Apparatus. (Earth Free.) New and improved pattern.—For the application of Galvanisation,

SIEMENS BROS. & CO., LTD.—*Continued.*

Faradisation, Galvano-Faradisation, Cataphoresis, Light, Cautery, etc.

The current for galvanisation and light is generated separately by a small dynamo, and therefore there is no danger of the patient or the doctor receiving electric shocks in consequence of earth connections. The machines are made of such a size that even the largest cauteries and loops may be used.

By the attachment of a flexible shaft, this apparatus can also be employed for Vibratory Massage and for surgical operations.

The apparatus is supplied with or without table.

Intense Current Induction Coil.—This new Induction Coil is characterised by a specially high secondary output. This is arrived at (1) by the selection of the most favourable magnetic and electrical conditions; (2) a special method of winding; and (3) by the employment of the very best insulating materials, a breakdown of the coil being quite out of the question, even with the highest excitation.

Universal and Safety Protective Tube Stand.—The Tube Stand exhibited has been designed so that, when making observations and examinations of the various parts of the trunk, the apparatus is held steadily and the tube and fluorescent screen adjusted easily and quickly. It meets every requirement of modern X-Ray practice.

Improved Universal Tube Stand.—In this apparatus the tube is fitted in a box having a Universal movement and lined with insulating protective material, the box being balanced by a counter-weight inside the stand. The front opening of the box is provided with a device into which various kinds of diaphragms may be fitted, and also permits of the attachment of the centering device for the tube.

Portable Hospital Ozone Apparatus.—This Apparatus has been designed for the purpose of supplying highly ozonised air for the treatment of wounds, and for various therapeutic purposes.

SIEMENS BROS. & CO., LTD.—*Continued.*

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Apps-Newton Instanta Induction Coil for Mercury and Electrolytic break work.—Specially constructed to give the maximum output and minimum of reverse current. Instantaneous results.

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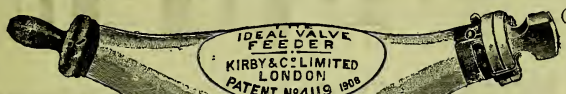

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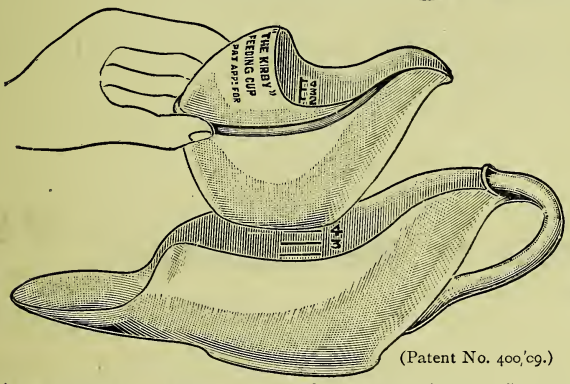

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